

EMERY

SE NE 22 175 12E

DESERT LAKE UNIT #1

AMOREO

CARRELL LAWSON

FARMINGTON

BRENT ROBERSON

(505) 325-8641

JAY STEVENS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION U-21793	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Wildcat <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE, OR TRIBE NAME FEB 7 1983	
2. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME SALT LAKE CITY, UTAH Desert Lake Unit (proposed)	
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, NM 87401		8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1820' FNL x 740' FEL, Section 22, T17S, R12E At proposed prod. zone Same		9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 20 miles southeast of Wellington		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1820'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/NE, Section 22, T17S, R12E	
16. NO. OF ACRES IN LEASE 2560		12. COUNTY OR PARISH Emery	
17. NO. OF ACRES ASSIGNED TO THIS WELL Wildcat		13. STATE Utah	
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2240'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5426 Ungraded ground.		22. APPROX. DATE WORK WILL START* As soon as permitted	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	40.0#	200'	236 cu. ft. Class B w/2% CaCl ₂ circ.
8-3/4"	5-1/2"	15.5#	2550'	630 cu. ft. Class B 50:50 POZ with 6% gel & 0.8% FLA. Tail-in with 385 cu. ft. Class B neat. Circ.

Amoco Production Company proposes to drill the above wildcat well to a depth of 2550 to test the Moenkopi and Kaibab formations. Surface hole will be drilled with native mud. Hole will then be drilled to TD with a water base low solids non-dispersed mud system. Two, 30-foot and one, 60-foot conventional core will be taken in the Moenkopi formation. One, 60-foot core will be taken in the Kaibab formation. Shallow aquifers will not be over pressured. Completion will be based on open hole logs. Copies of all logs run will be furnished upon reaching total depth. Copies of location plats are attached as well as additional information required by NTL-6. This well is being drilled as a Tight Hole and information is to be kept confidential.

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Original Signed By
SIGNED D. H. SHOENAKER TITLE District Engineer DATE 2/4/83
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE MAR 2 1983
APPROVED BY E. W. Guynn TITLE District Oil & Gas Supervisor DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPYFLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

COMPANY AMOCO PRODUCTION COMPANY

LEASE Desert Lake Unit WELL NO. 1

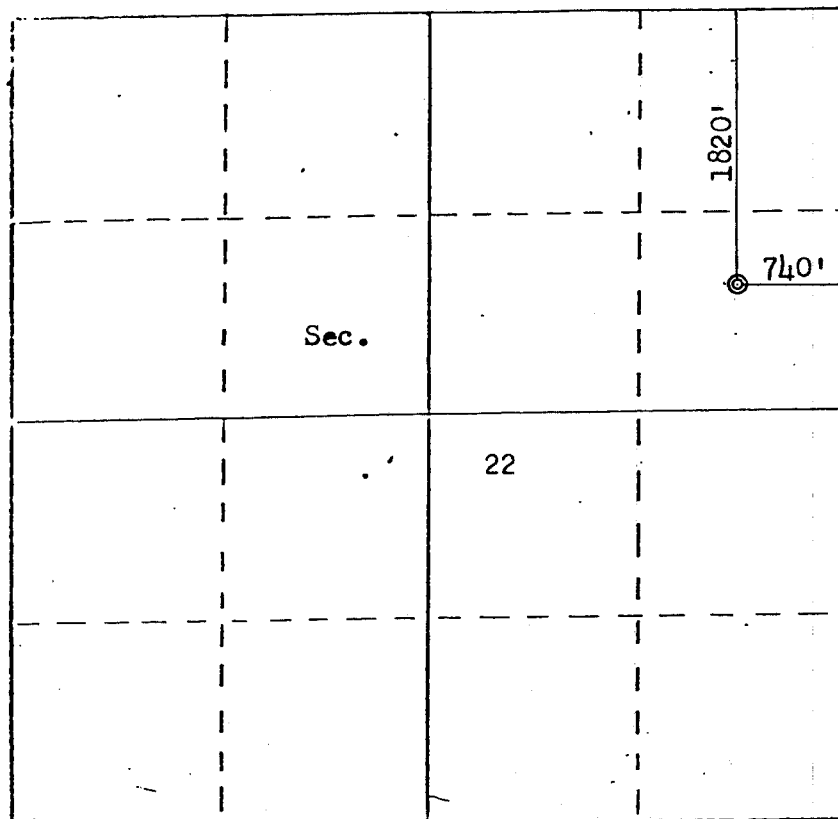
SEC. 22, T 17S, R 12E

Emery County, Utah

LOCATION 1820'FNL 740'FEL

ELEVATION 5426 ungraded-ground

EXHIBIT "C"

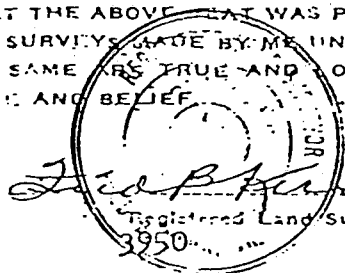


SCALE—1 INCHES EQUALS 1 MILE

CONFIDENTIAL

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEY MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME IS TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:



SURVEYED June 29

19 82

Amoco Production Company
Well No. 1
Section 22, T. 17 S., R. 12 E.
Emery County, Utah
Lease U-21793

Supplemental Stipulations

- 1) Adequate precautions will be taken to isolate fresh water aquifers and to isolate the Navajo and Wingate Formations.
- 2) Any necessary BLM Right-of-Way Grants must be obtained prior to any surface disturbing activities.
- 3) Portable chemical toilets will be used for human sewage which must be removed from the site and disposed at an authorized disposal site. Sewage pits for trailers will not be allowed. Trailer sewage facilities must be self contained or stored in temporary holding tanks.
- 4) Amoco shall insure that all individuals working at or near the location are aware of and comply with all applicable stipulations.
- 5) The BLM's representative (Sid Vogelpohl, 801-637-4583) will be notified at least 48 hours prior to any surface disturbing activities associated with new access roads or drill pad location. A pre-construction on-site shall be arranged by Amoco at which representatives of the BLM, Amoco and the dirt contractor shall be present.
- 6) Vegetative clearing shall be confined to the limits of actual construction. Larger vegetative debris shall be manually scattered at least 15 feet outside the limits of construction.
- 7) Roads shall be constructed where flagging was located during the on-site inspection. Driving surface widths of roads serving no more than two wells are to be limited to 16 feet with turnouts at least every 1,000 feet or less as determined by terrain. Roads serving more than two wells will be limited to a 22 foot width (driving surface). Roads will be crowned and ditched or sloped with water bars and water turnouts. Culverts will be installed as determined by the Authorized Officer. Changes in finished road design may be required by the BLM. All cut and fill slopes shall be seeded as specified by the BLM.
- 8) On sidehill sections where the road material contains over 50 percent rock and cross slope is from 10 to 65 percent, the road shall be outsloped from 2 to 4 percent. On all other side hill sections the road shall be insloped or crowned with appropriate ditches in either case.

- 9) Amoco shall upgrade those roads previously constructed in the area as stipulated in the road right-of-way grant and the APD approval for Lucky Flat No. 1 and same shall be accomplished prior to new road construction for Desert Lake No. 1 unless otherwise established by the BLM.
- 10) Six to 8 inches of topsoil on the entire pad site shall be removed and stockpiled in a manner to minimize soil loss to wind and water erosion. Stockpiles shall be rounded off and located so that soil is not contaminated or compacted. In the event that the well is a producer, soil stockpiles shall be seeded. A seed mix will be provided by the BLM.
- 11) Mud pits not based in at least 4 feet of cut material shall have the embankments of fill material keyseated to ensure pit stability and fluid retention. The fill used in embankments shall be placed in lifts and compacted. Lining of pits may be required if same is determined necessary during the pre-construction on-site.
- 12) Littering of access roads or pad area by personnel involved in the drilling operation or construction shall be prevented or corrected by Amoco. Litter pickup along access roads or in the pad area may be required. Collected garbage and trash will be disposed of at an authorized landfill. Drained equipment oil will be disposed of in pits at drill sites or at a landfill.
- 13) The completed road shall be maintained so that the travel surface is free of excessive ruts, holes, soft spots, slides and washboards. The road, drainage, and shoulders shall be free of large rocks, vegetative debris and slides. Drainage ditches shall be relatively free of sediments and not excessively eroded. Low water crossings shall be maintained.
- 14) During periods of weather when activity would result in deep rutting (6 inches or more) of the driving surface or excessive disturbance on the right-of-way, a stop work order may be verbally issued by the Authorized Officer with a follow-up written order. An authorization to resume work will be required.
- 15) Residues and contaminated earth in mud pits may be required to be completely removed if, with reclamation, same would be near or exposed at the surface.
- 16) Upon completion of drilling operations, the BLM's representative shall be notified by Amoco of production and/or reclamation plans so that an inspection may be conducted to determine if mitigating measures in addition to those included in the surface use plan or presented hereby are necessary.

- 17) Any production facilities will be painted a single, low gloss, pastel color that will blend with the color of soils, rock or vegetation. Color will be approved by the BLM's representative.
- 18) Reclamation, when determined necessary by the BLM, will return all disturbed areas to a color and topographic form that blends with the surroundings. Any topsoil stockpiled will be redistributed and the area seeded as specified by the BLM at the time of reclamation. Erosion control devices will be required as determined by BLM.



S. D. Blossom
District Superintendent

March 16, 1983

Utah State Division of Oil, Gas and Mining
Attn: Norm Stout
4241 State Office Building
Salt Lake City, UT 84114

File: DDL-171-400.1

Dear Mr. Stout:

Application for Permit to Drill
Desert Lake Unit No. 1
SE/4, NE/4, Section 22, T17S, R12E
Emery County, Utah

Attached is a copy of the federal Application for Permit to Drill concerning our Desert Lake Unit No. 1.

We commenced drilling on this well on March 14, 1983. We stopped drilling on March 16, 1983 because we did not have a State of Utah Permit to Drill this well. We received approval to drill from the BLM on March 2, 1983.

Due to an oversight on our part, we failed to apply for the State of Utah permit. This office routinely handles New Mexico wells which do not require State Drilling Permits for wells on federal leases. We erroneously assumed that Utah State requirements were the same as New Mexico's.

Regretfully yours,

BTR/tk
Attachment

AM8

Amoco Production Company

Petroleum Center Building
501 Airport Drive
Farmington, New Mexico 87401
505-325-8841

RECEIVED
MAR 17 1983

**DIVISION OF
OIL, GAS & MINING**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYMINERALS MANAGEMENT
SERVICE
RECEIVED
FEB 7 1983

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☒ OTHER Wildcat SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface 1820' FNL x 740' FEL, SEction 22, T17S, R12E
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 20 miles southeast of Wellington

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1820'

16. NO. OF ACRES IN LEASE 2560

17. NO. OF ACRES ASSIGNED TO THE WELL Wildcat

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2240'

19. PROPOSED DEPTH 2550' *White Rain*

20. ROPE OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5426 Ungraded ground.

22. APPROX. DATE WORK WILL START* As soon as permitted

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	40.0#	200'	236 cu. ft. Class B w/2% CaCl ₂ circ.
8-3/4"	5-1/2"	15.5#	2550'	630 cu. ft. Class B 50:50 POZ with 6% gel & 0.8% FLA. Tail-in with 385 cu. ft. Class B neat. Circ.

Amoco Production Company proposes to drill the above wildcat well to a depth of 2550 to test the Moenkopi and Kaibab formations. Surface hole will be drilled with native mud. Hole will then be drilled to TD with a water base low solids non-dispersed mud system. Two, 30-foot and one, 60-foot conventional core will be taken in the Moenkopi formation. One, 60-foot core will be taken in the Kaibab formation. Shallow aquifers will not be over pressured. Completion will be based on open hole logs. Copies of all logs run will be furnished upon reaching total depth. Copies of location plats are attached as well as additional information required by NTL-6. This well is being drilled as a Tight Hole and information is to be kept confidential.

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depth. Give blowout preventer program, if any.

24. Original Signed By
D. H. SHOEMAKER
SIGNED *[Signature]* TITLE District Engineer

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: *3-17-83*
BY: *[Signature]*

PERMIT NO. APPROVAL DATE
E. W. Guynn
APPROVED BY *[Signature]* TITLE District Oil & Gas Supervisor
CONDITIONS OF APPROVAL, IF ANY:

DATE MAR 2 1983

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

SUPPLEMENTAL INFORMATION TO FORM 9-331C

Desert Lake Unit No. 1
1820' FNL x 740' FEL, Section 22-T17S-R12E
Emery County, Utah

1. Geological Name of Surface Formation: Entrada
2. Estimated Tops of Important Geological Markers:

		<u>Expected Fluids</u>
Carmel	50'	water
Navajo	320'	water
Kayenta	670'	water
Wingate	800'	water
Chinle	1220'	water
Moenkopi	1500'	oil
Kaibab	2340'	oil
White Rim	2500'	oil
TD	2550'	oil

3. Estimated Depths Anticipated to Encounter Water, Oil, Gas, or Other Mineral-Bearing Formations:

See Item No. 2 Above

4. Casing Program: See Form 9-331C, Item No. 23
5. Operators Minimum Specifications for Pressure Control Equipment are Explained on Attached Schematic Diagram. After running surface casing and prior to drilling out, the BOP and other pressure equipment will be tested to the full working pressure rating as shown on the attached diagram. Thereafter, the BOP will be checked daily for mechanical operations only, and will be noted on the IADC Drilling Report. (See Exhibit BOP-3000)

6. Mud Program:

Drilling fluid to TD will be a low solids non-dispersed mud system.

7. Auxiliary Equipment:

Kelly cock, floor sub with full opening valve, geolograph, mudlogging unit (2-man type).

8. Testing Program:

Drill stem test will be taken at approximately 1500-1700', 2340-2450'

Coring Program

Two, 30-foot and one, 60-foot conventional core will be taken in the Moenkopi formation and one, 60-foot core will be taken in the Kaibab formation.

CONFIDENTIAL

Logging Program

Open hole logs will include the following from the base of the surface casing to TD:

- DIL-GR-SP
- FDC-CNL-GR w/Caliper
- BHC Sonic - GR
- Dipmeter
- Long Spaced Digital Sonic Log
- Acoustic Wave Train Survey

Completion will be based on these logs.

9. No abnormal pressures, temperatures, or hydrogen sulfide gas is anticipated.
10. Operations will commence when approved and will last approximately five (5) weeks from start to finish.

CONFIDENTIAL

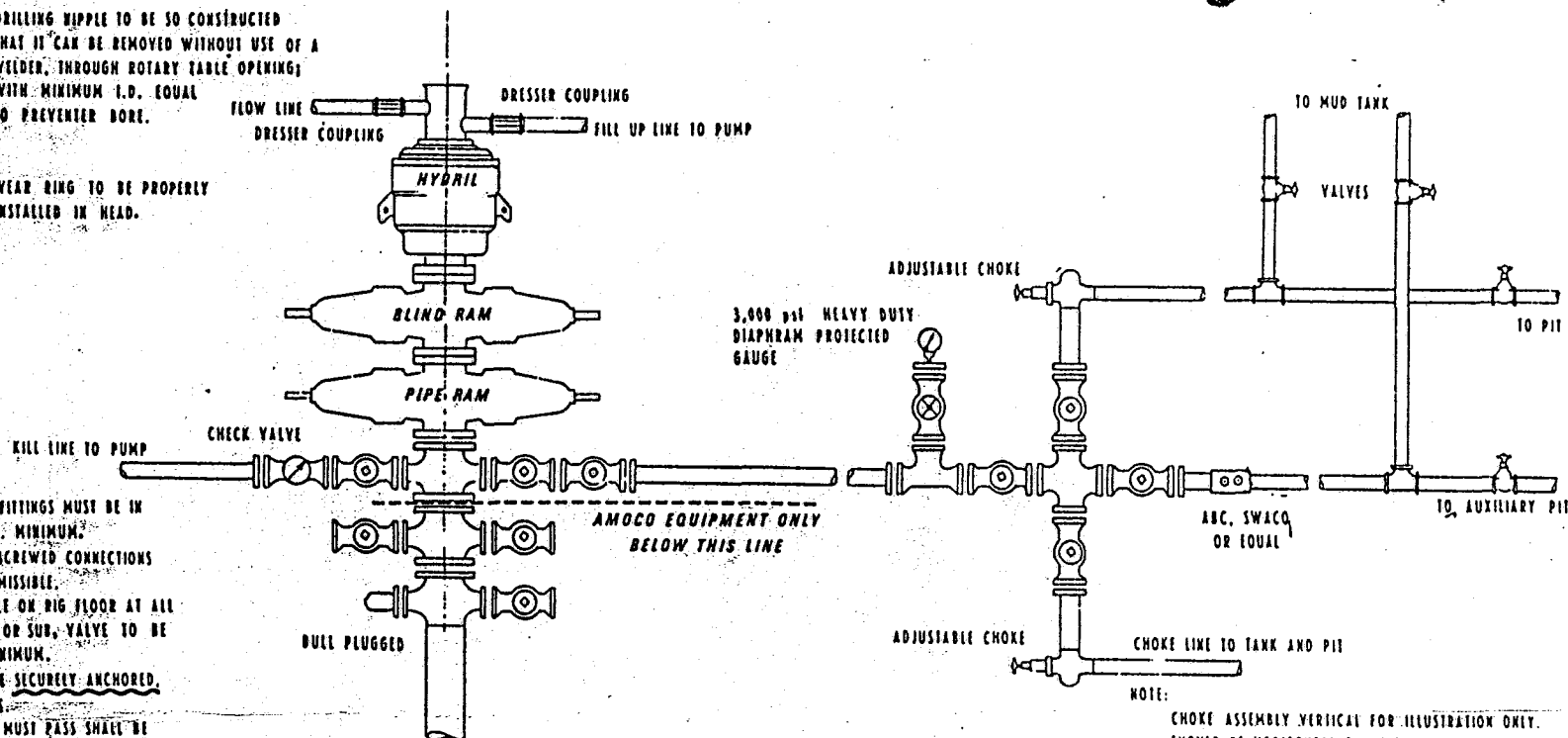
CONFIDENTIAL

EXHIBIT BOP-3000
MINIMUM BLOW-OUT PREVENTER REQUIREMENTS
3,000 psi W.P.

NOTE:

1 DRILLING WHIPPLE TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER, THROUGH ROTARY TABLE OPENING, WITH MINIMUM I.D. EQUAL TO PREVENTER BORE.

2 WEAR RING TO BE PROPERLY INSTALLED IN HEAD.



NOTE:

- 1 BLOW-OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 3,000 psi W.P. MINIMUM.
- 2 ALL FITTINGS TO BE FLANGED, SCREWED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE.
- 3 SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB. VALVE TO BE FULL BORE 3,000 psi W.P. MINIMUM.
- 4 ALL CHOKES AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKES LINES.
- 5 EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH.
- 6 KELLY COCK ON KELLY.
- 7 EXTENSION WRENCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES.
- 8 BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE.
- 9 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE 80 GALLON ACCUMULATOR, TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT INSTALLATION, AND MEET ALL IADC SPECIFICATIONS.

NOTE:

ALL VALVES TO BE FULL OPENING

NOTE:

CHOKES ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY. SHOULD BE HORIZONTAL ON RIG. STAKE ALL LINES SECURELY EVERY 30' AND AT END OF LINE.

COMPANY AMOCO PRODUCTION COMPANY

LEASE Desert Lake Unit WELL NO. 1

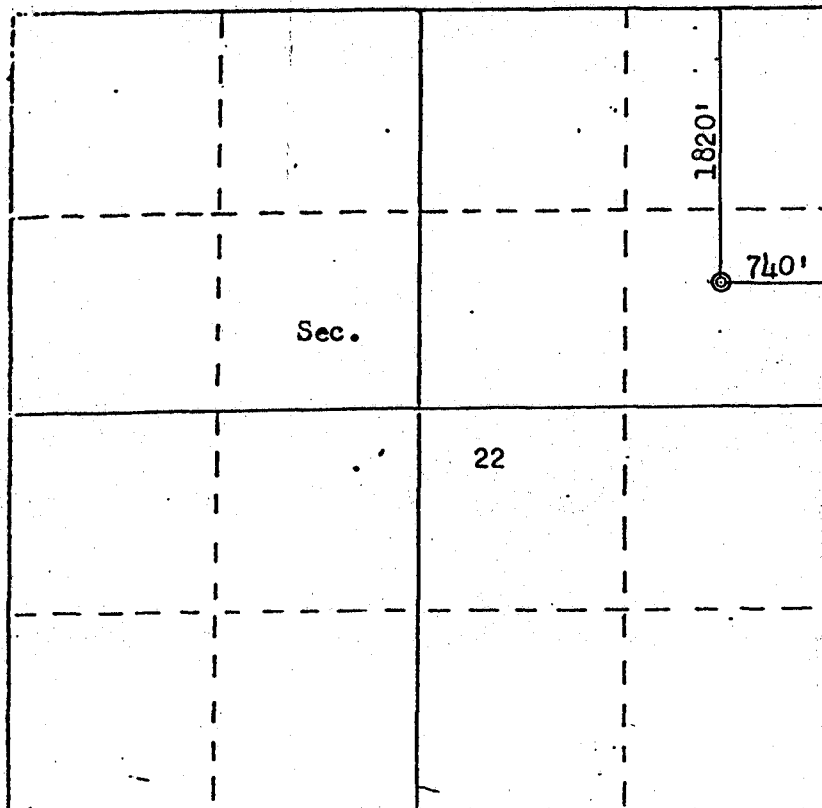
SEC. 22, T. 17S, R. 12E

Emery County, Utah

LOCATION 1820'FNL 740'FEL

ELEVATION 5426 ungraded-ground

EXHIBIT "C"

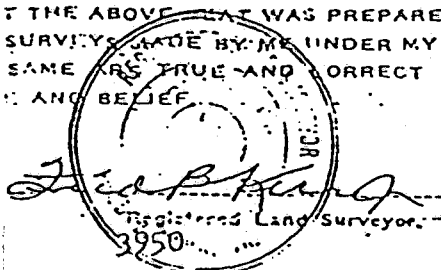


SCALE—1 INCHES EQUALS 1 MILE

CONFIDENTIAL

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEY MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME IS TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:



SURVEYED June 29

1982

MULTI-POINT SURFACE USE & OPERATIONS PLAN
Desert Lake Unit No. 1
1820' FNL & 740' FEL, Section 22-T17S-R12E
Emery County, Utah

1. EXISTING ROADS:

- A. Proposed well site as staked: SE/4, NE/4, Section 22, T17S, R12E: See Exhibit "C"
- B. Route and distance from nearest town or locatable reference to where well access route leaves main road: See Exhibit "B"
- C. Access road to location color-coded or labeled: See Exhibit "A"
- D. If exploratory well, all existing roads within a 3-mile radius of wellsite: See Exhibit "D"
- E. If development well, all existing roads within a 1-mile radius of wellsite: N/A
- F. Plans for improvement and/or maintenance of existing roads:

Amoco proposes to repair the washed out segments of the jeep trail at its point of beginning in Section 30, T17S, R13E, to its end at the Price River in Section T17S, R13E. All access roads will be bar ditched on up-hill side, when necessary. See Exhibit "D".

2. PLANNED ACCESS ROADS:

- (1) Width: 20 feet.
- (2) Maximum Grade: *X% 10% 22 ft. total dist.*
- (3) Drainage Design: *Flatbladed - No - 16 ft. DRIVING SURFACE*
- (4) Turnouts: None
- (5) Location and size of culverts, location of any major cuts or fills: None
- (6) Surfacing Material: Native Soil
- (7) Gates, cattleguards, or fencecuts: One cattleguard will be installed to replace a wire gate on existing road.
- (8) Centerline stake for new or reconstructed access: Centerline flagging for access and location is in place.

3. LOCATION OF EXISTING WELLS:

- (1) Water Wells: None
- (2) Abandoned Wells: 1 (Lucky Flats Unit No. 1, NE/4, SE/4, Section 27, T17S, R12E)
- (3) Temporarily Abandoned Wells: None
- (4) Disposal Wells: None
- (5) Drilling Wells: None
- (6) Producing Wells: None
- (7) Shut-in Wells: None
- (8) Injection Wells: None
- (9) Monitoring or Observation Wells: None

CONFIDENTIAL

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Lessee Operated/Owned Facilities within a 1-Mile Radius:

- (1) Tank Batteries: None
- (2) Production Facilities: None
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None
- (6) Disposal Lines: None

B. New Lessee Operated/Owned Facilities in the Event of Production:

- (1) Location of all Lines: Location of all lines are to be on the drillsite.
- (2) Dimension of Facilities: Approximately 125' x 125'.
- (3) Construction Methods and Materials: Amoco and OSHA approved construction methods and materials will be used.
- (4) Protective Measures and Devices to Protect Livestock and Wildlife: Pits will be fenced and covered until dry, then backfilled. A pumping unit, if installed, will be fenced. Recycle pumps, if any, will be enclosed.

C. Plan for Rehabilitation of Disturbed Areas No Longer Needed for Operations After Construction is Completed:

Areas no longer needed will be leveled and contoured to as nearly the original topography as is feasible. The top soil will be evenly spread over the entire location after contouring is complete. The area will be reseeded with recommendations from the Bureau of Land Management.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. Location and Type by Map or Description: Water will be hauled from the Price River in Section 7, T17S, R13E, which is approximately 5 miles from the drill site.
- B. Transportation & Roads: Water will be trucked from Price River over jeep trail and newly constructed access roads. See Exhibit "D"
- C. Water Well to be Drilled: None

6. SOURCE OF CONSTRUCTION MATERIALS

- A. Location by Map or Description: Construction materials will be obtained from the disturbed area.
- B. Federal or Indian Land Ownership: Bureau of Land Management administers surface resources out of Price River Resource Area Office.
- C. Construction Material Obtained and Used: No construction material will be hauled in for this project.

CONFIDENTIAL

- D. Access Roads on Federal or Indian Land to Construction Material Source: None Required.

7. METHODS FOR HANDLING WASTE DISPOSAL:

- (1) Cuttings: A 75' x 75' x 5' reserve pit will be built on location to hold all drilling waste.
- (2) Drilling Fluid: See A. above.
- (3) Produced Fluids, Oil and Water: To be contained in the reserve pit until clean-up, then skimmed or burned as the situation dictates.
- (4) Sewage: To be ~~buried or~~ trucked from the location after operations are concluded.
- (5) Garbage and Other Waste: Will be contained in a steel mesh portable trash container 8' x 12' x 6' enclosed, and will be hauled from location to disposal area when filled.
- (6) Clean Up After Rig Removal: ^{NONE} The surface of the drill pad will be graded. The "mouse" and "rat" holes, ~~sewage~~, burn pits, etc., will be filled as soon as possible; the reserve pit will be fenced on all four sides until dry, then filled, recontoured and seeded.

8. AUXILIARY FACILITIES - Campe and/or Airstrips

None Planned.

9. WELL SITE LAYOUT:

- (1) Drill Pad Cross Section: See Exhibit "F"
- (2) Location of Mud Tanks, Reserve Pit, Burn and Trash Pit, Etc.: See Exhibit "E"
- (3) Rig Orientation: See Exhibit "E"
- (4) Pits: All pits will be unlined as requested by the BLM.

10. PLANS FOR RESTORATION OF SURFACE:

- (1) All pits and holes will be filled after rig removal except the reserve pit which will be fenced on all four sides.
- (2) Revegetation and rehabilitation of the location and access roads will be handled per BLM specifications.
- (3) Pits will be fenced per stipulations during drilling operations and after rig release.
- (4) Reserve pit oil will be removed, burned or the pit flagged as necessary.
- (5) Rehabilitation and reseeding will take place within 90 days of completion of operations or as weather conditions permit.

11. OTHER INFORMATION:

- (1) General Description of Surface: The general topography and soil characteristics are a terrain sloping to the East, with a rocky, sandy loam soil, and juniper trees and native grasses.
- (2) Surface Use and Surface Ownership: The area is primarily used for cattle and sheep grazing.


CONFIDENTIAL

- (3) Proximity of Water, Occupied Dwellings, Archaeological, Historical, or Cultural Sites: Price River is located approximately 3-1/2 miles northeast of drill site. There are no occupied dwellings in the area. There are no historical, cultural, or archaeological sites in the general area. See Exhibit "C"

12. OPERATOR'S REPRESENTATIVE: S. D. Blossom
Phone (Office): 505-325-8841
Address: 501 Airport Drive, Farmington, NM 87401

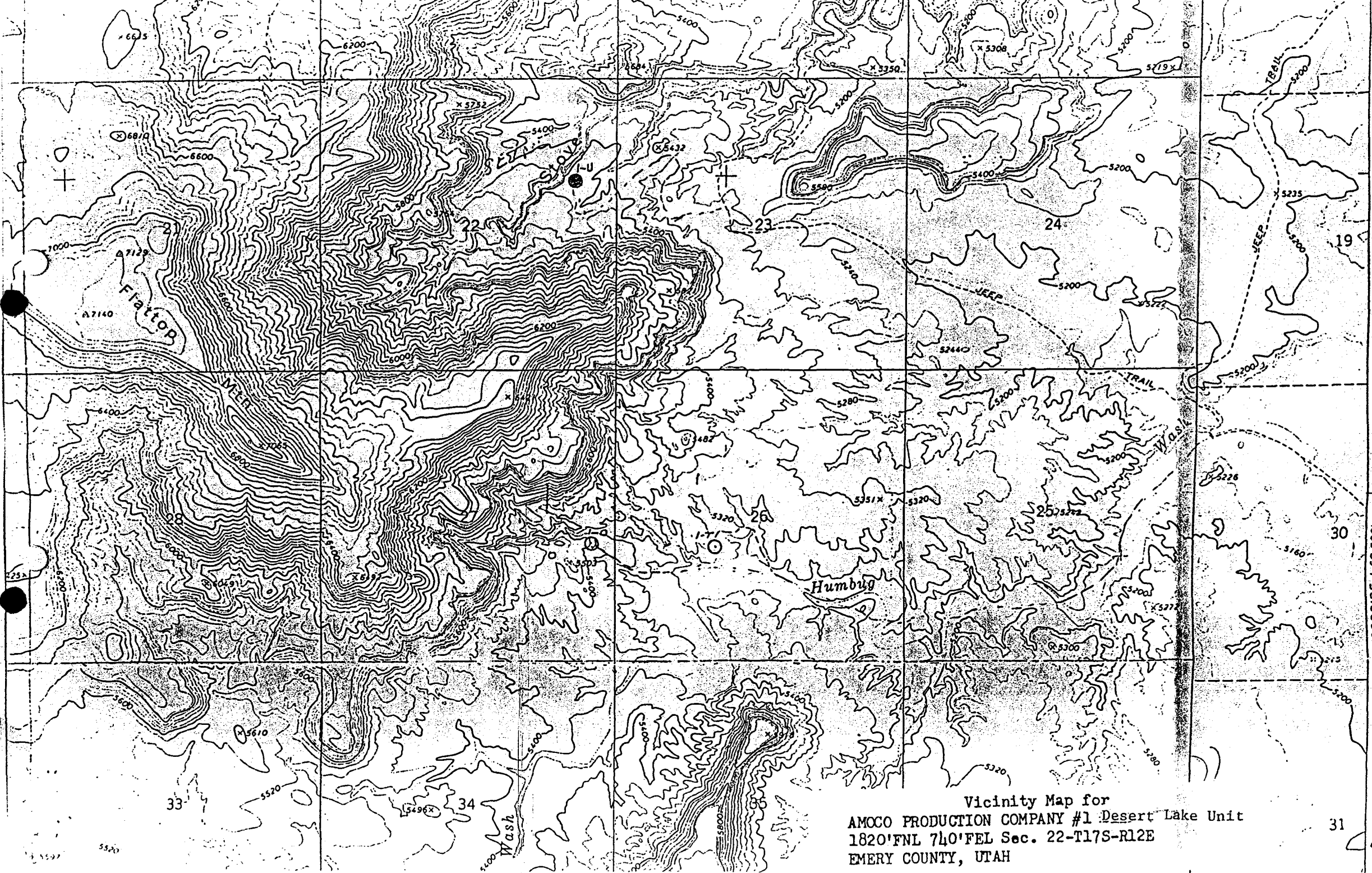
13. CERTIFICATION: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: February 4, 1983



S. D. Blossom, District Superintendent

CONFIDENTIAL

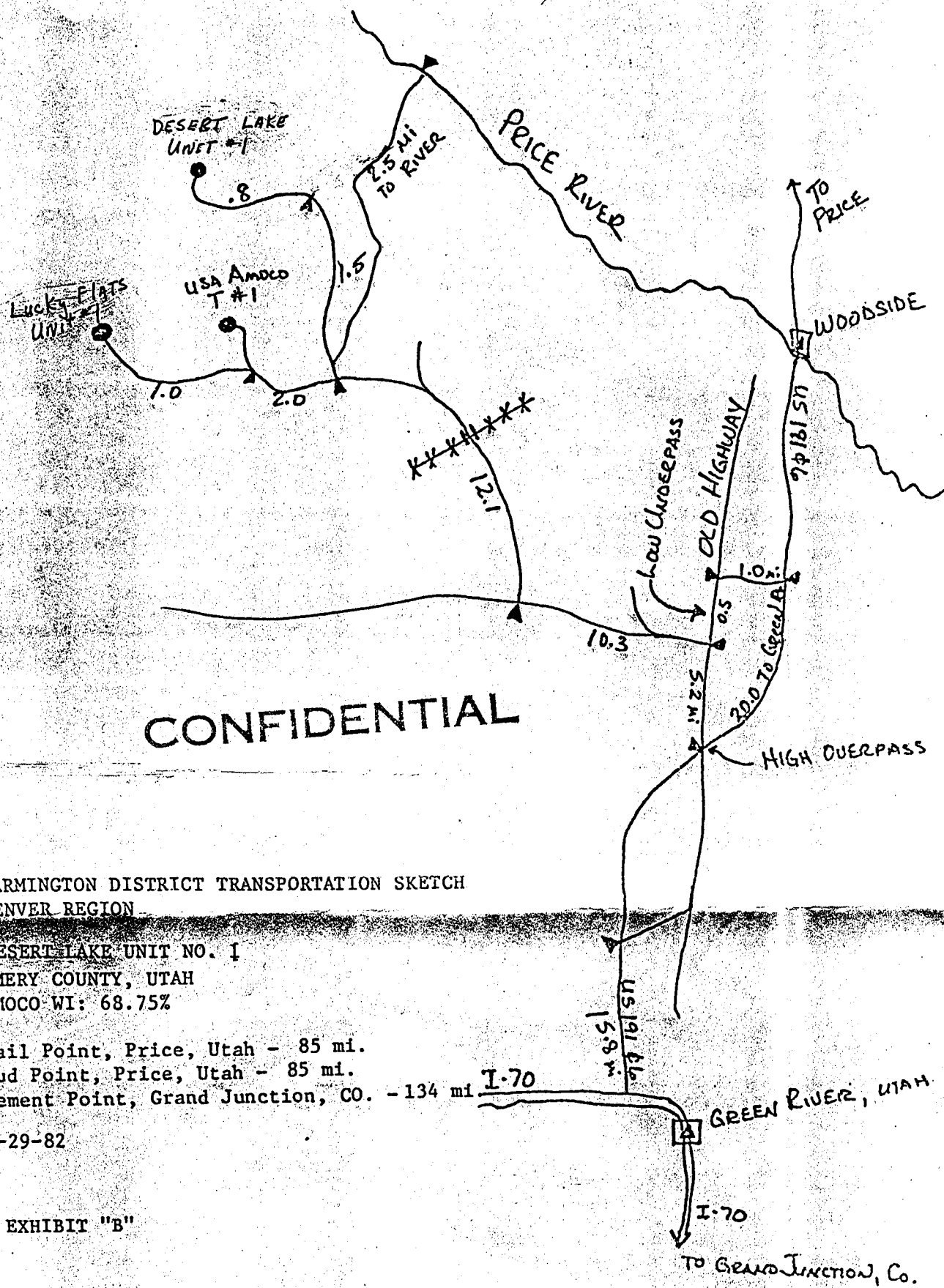
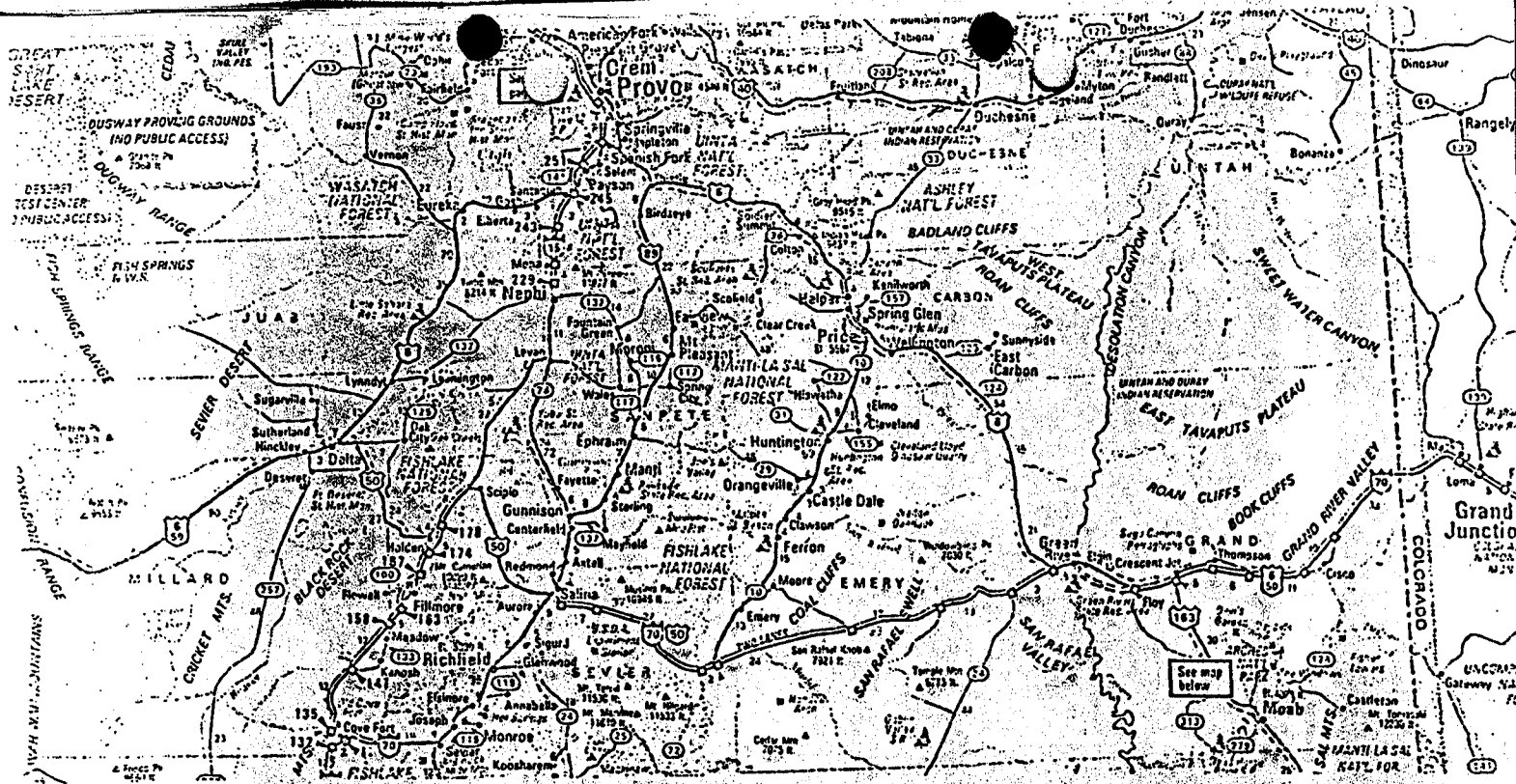


Vicinity Map for
AMOCO PRODUCTION COMPANY #1 Desert Lake Unit
1820'FNL 740'FEL Sec. 22-T17S-R12E
EMERY COUNTY, UTAH

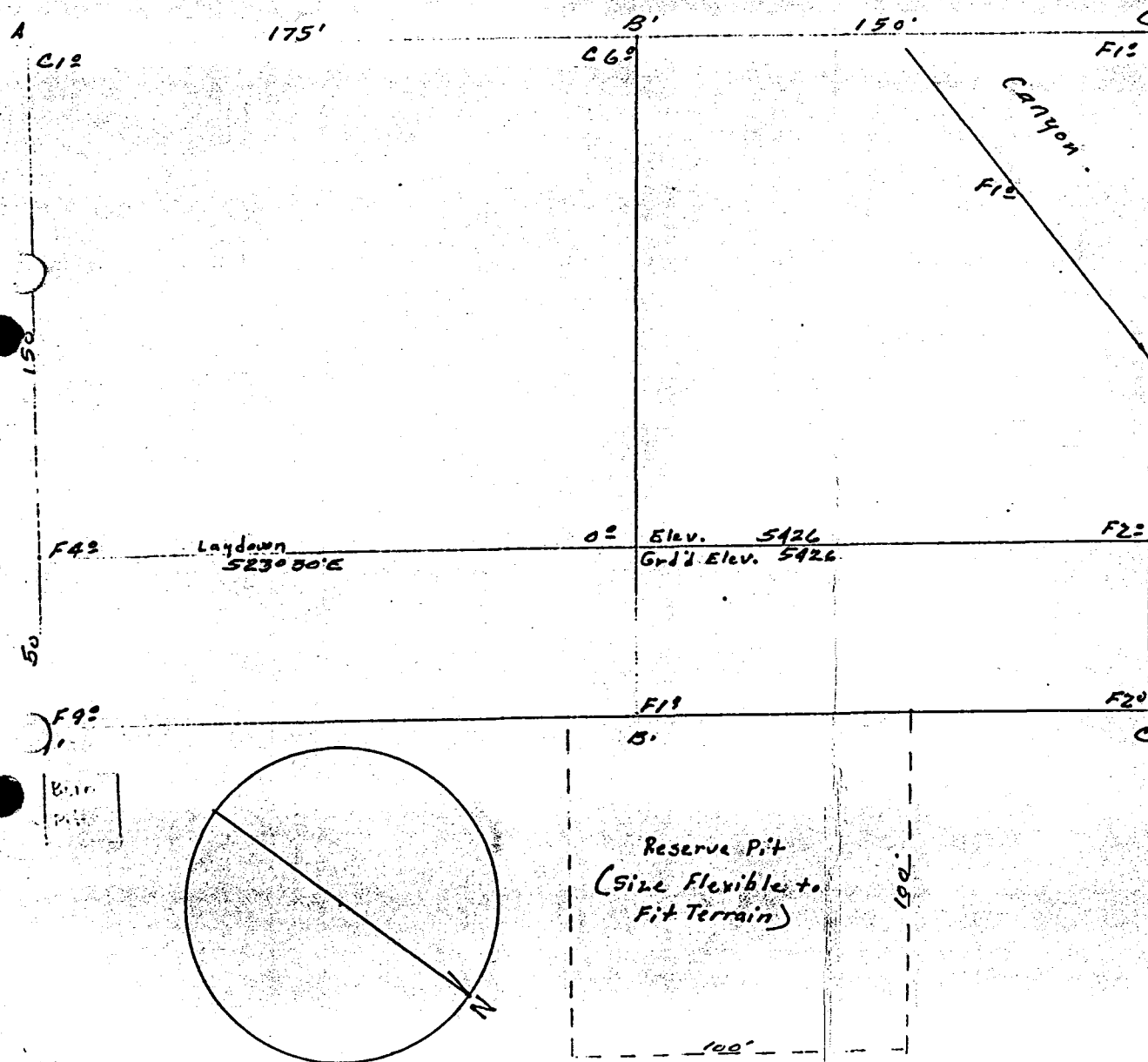
CONFIDENTIAL



EXHIBIT "A"



Profile 101
 AMOCO PRODUCTION COMPANY DESERT LAKE UNIT #1
 1820'FNL 740'FEL Sec. 22-T17S-R12E
 EMERY COUNTY, UTAH



CONFIDENTIAL

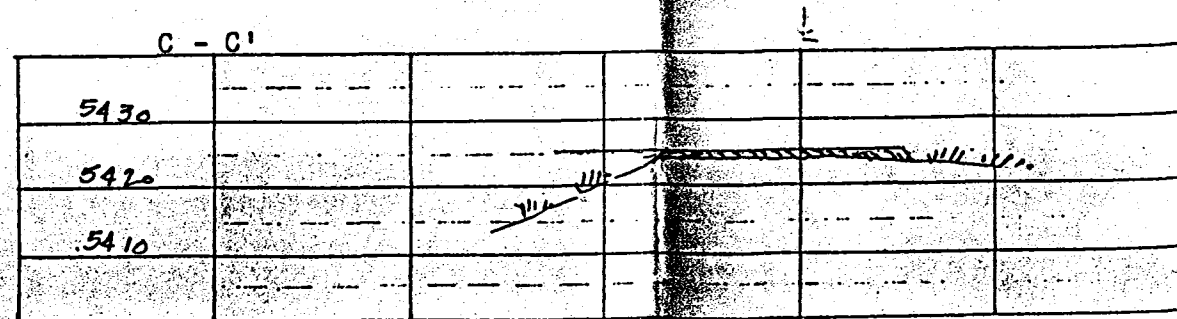
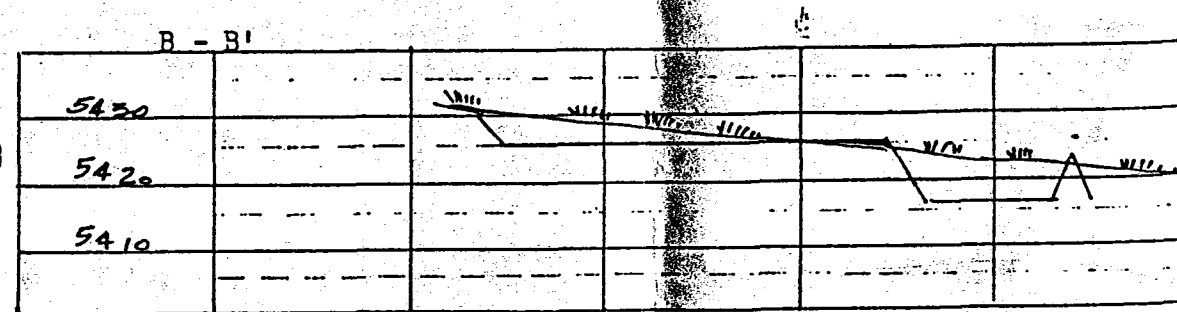
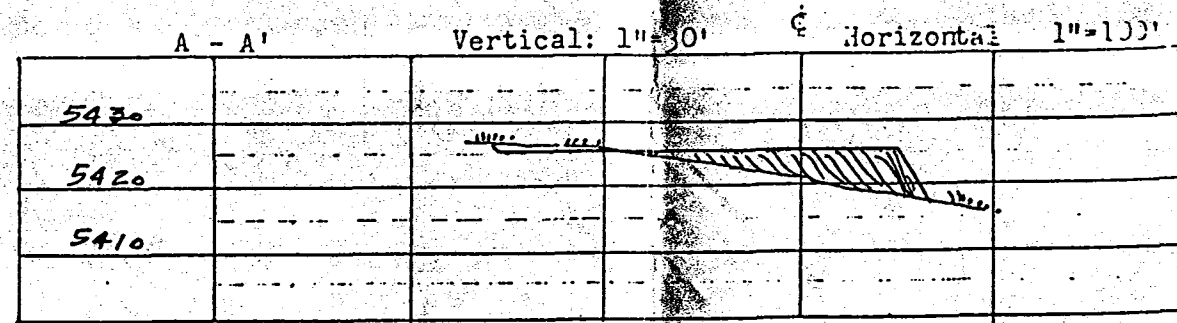
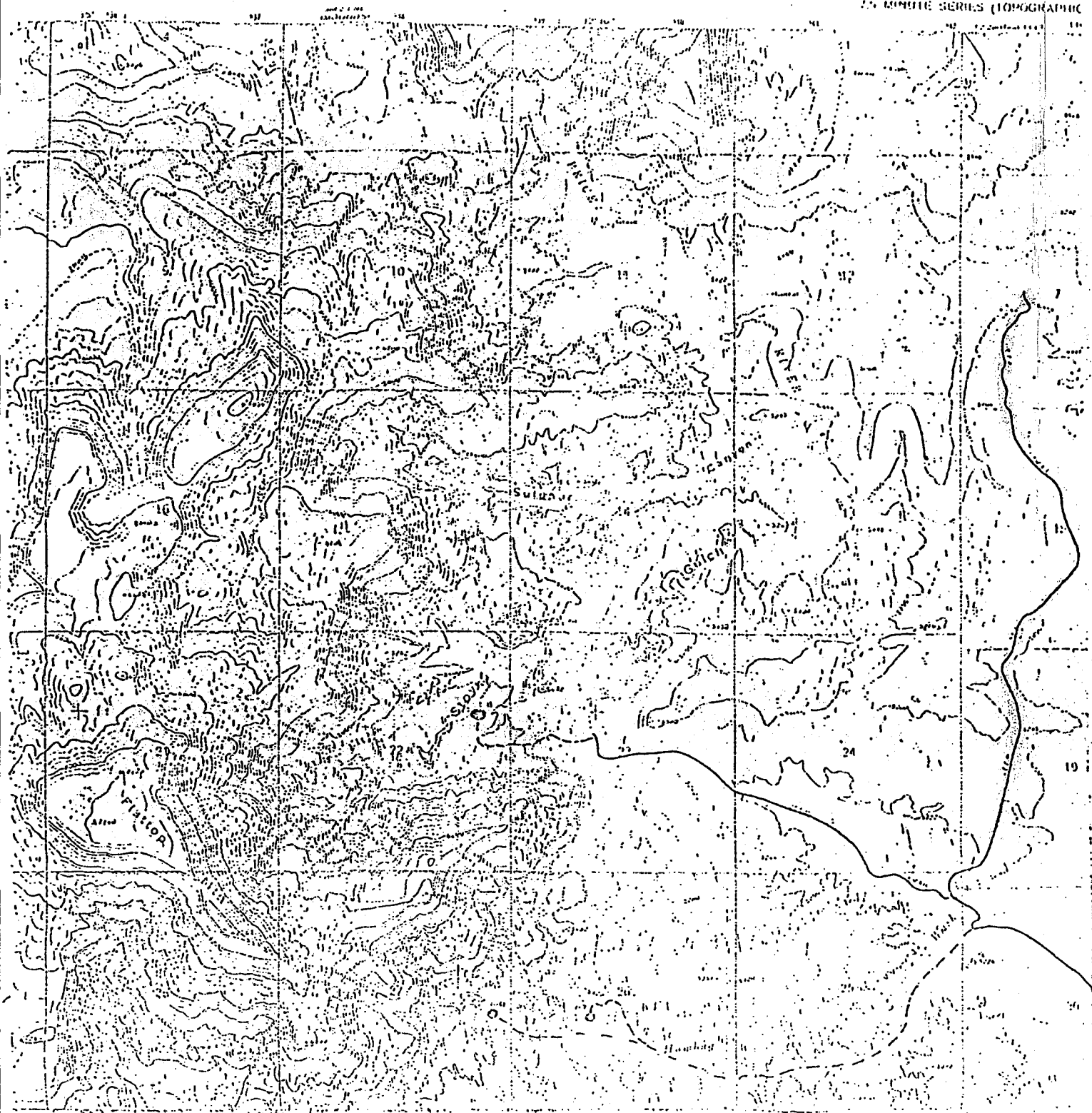


EXHIBIT "F"

Scale: 1"=50'

STATE OF UTAH
UTAH GEOLOGICAL AND MINERALOGICAL SURVEY

FLATTOP MTH. QUADRANGLE
UTAH-EMERY CO.
25 MINUTE SERIES (TOPOGRAPHIC)



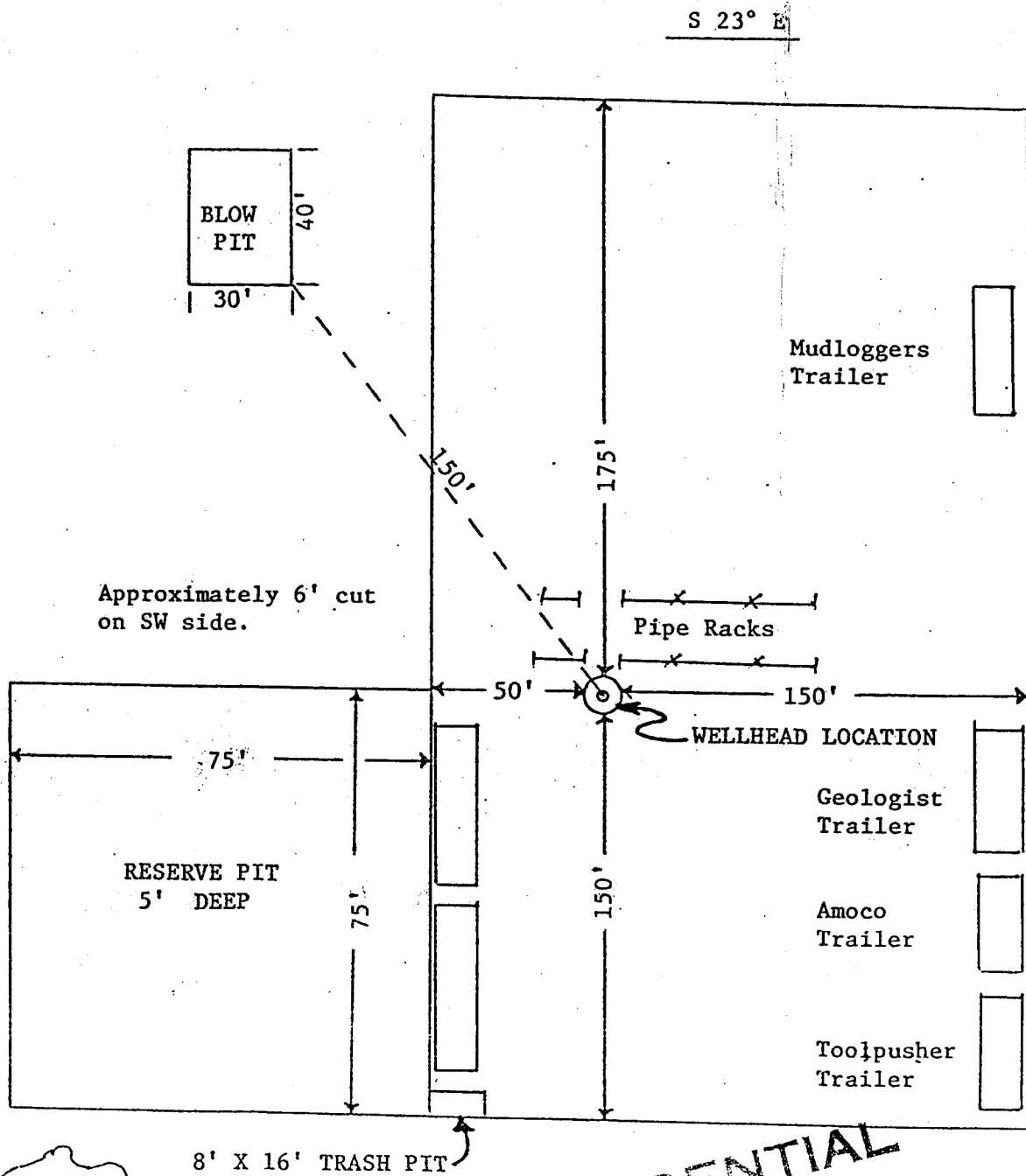
CONFIDENTIAL

CONFIDENTIAL

ROADS TO BUILD -----

ROADS TO IMPROVE _____
(IF NEEDED)

EXHIBIT "D"



S 23° E

CONFIDENTIAL

EXHIBIT "E"

APPROXIMATELY 1.2 ACRES

Amoco Production Company		SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS		
DESERT LAKE UNIT No. 1		ORG. NO.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Amoco Production Company Well No. 1

Location Sec. 22, T. 17 S, R. 12 E Lease No. 4-21793

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

MAR 4 1983	
FACILITY	
DISTRICT	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Supervisor must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

OPERATOR

4. The spud date will be reported orally to the District Supervisor's office within 48 hours after spudding. If the supdding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Supervisor's office on a frequency and form or method as may be acceptable to the District Supervisor.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with the U.S. Geological Survey Accounting, P.O. Box 2859, Casper Wyoming 82602.

Any change in the program must be approved by the District Supervisor, "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Supervisor.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) ~~(are not)~~ involved at this location. Accordingly, you (must) ~~(need not)~~ notify the Surface Management Agency at least (48) ~~(48)~~ hours prior to commencing field operations to allow the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact is:
Office Phone: (801) 637-4584
City: Price

Sid Vogelsohl
Home Phone: _____
State: Utah

The Minerals Management Service office address and contacts are:

Address: 2000 Administration Building, 1745 West 1700 South, SLC, Utah 84104-3884

Office Phone: (801) 524-4590

District Supervisor E. W. Gwynn

Home Phone: (801) 582-7042

District Drilling Engineer W. P. Martens

Home Phone: (801) 466-2780

District Production Engineer R.A. Henricks

Home Phone: (801) 484-2294

Staff Engineer A.M. Raffoul

Home Phone: (801) 484-2638

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operation Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Supervisor, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Supervisor's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact the Surface Management Agency 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.

12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

- a. Operator name, address and telephone number.
- b. Well name and number.
- c. Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).
- d. Date well was placed in a producing status.
- e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.
- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.
- g. If appropriate, the unit agreement name, number and participating area name.
- h. If appropriate, the communitization agreement number.

13.

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

Amoco Production Company
Well No. 1
Section 22, T. 17 S., R. 12 E.
Emery County, Utah
Lease U-21793

Supplemental Stipulations

- 1) Adequate precautions will be taken to isolate fresh water aquifers and to isolate the Navajo and Wingate Formations.
- 2) Any necessary BLM Right-of-Way Grants must be obtained prior to any surface disturbing activities.
- 3) Portable chemical toilets will be used for human sewage which must be removed from the site and disposed at an authorized disposal site. Sewage pits for trailers will not be allowed. Trailer sewage facilities must be self contained or stored in temporary holding tanks.
- 4) Amoco shall insure that all individuals working at or near the location are aware of and comply with all applicable stipulations.
- 5) The BLM's representative (Sid Vogelpohl, 801-637-4583) will be notified at least 48 hours prior to any surface disturbing activities associated with new access roads or drill pad location. A pre-construction on-site shall be arranged by Amoco at which representatives of the BLM, Amoco and the dirt contractor shall be present.
- 6) Vegetative clearing shall be confined to the limits of actual construction. Larger vegetative debris shall be manually scattered at least 15 feet outside the limits of construction.
- 7) Roads shall be constructed where flagging was located during the on-site inspection. Driving surface widths of roads serving no more than two wells are to be limited to 16 feet with turnouts at least every 1,000 feet or less as determined by terrain. Roads serving more than two wells will be limited to a 22 foot width (driving surface). Roads will be crowned and ditched or sloped with water bars and water turnouts. Culverts will be installed as determined by the Authorized Officer. Changes in finished road design may be required by the BLM. All cut and fill slopes shall be seeded as specified by the BLM.
- 8) On sidehill sections where the road material contains over 50 percent rock and cross slope is from 10 to 65 percent, the road shall be outsloped from 2 to 4 percent. On all other side hill sections the road shall be insloped or crowned with appropriate ditches in either case.

- 9) Amoco shall upgrade those roads previously constructed in the area as stipulated in the road right-of-way grant and the APD approval for Lucky Flat No. 1 and same shall be accomplished prior to new road construction for Desert Lake No. 1 unless otherwise established by the BLM.
- 10) Six to 8 inches of topsoil on the entire pad site shall be removed and stockpiled in a manner to minimize soil loss to wind and water erosion. Stockpiles shall be rounded off and located so that soil is not contaminated or compacted. In the event that the well is a producer, soil stockpiles shall be seeded. A seed mix will be provided by the BLM.
- 11) Mud pits not based in at least 4 feet of cut material shall have the embankments of fill material keyseated to ensure pit stability and fluid retention. The fill used in embankments shall be placed in lifts and compacted. Lining of pits may be required if same is determined necessary during the pre-construction on-site.
- 12) Littering of access roads or pad area by personnel involved in the drilling operation or construction shall be prevented or corrected by Amoco. Litter pickup along access roads or in the pad area may be required. Collected garbage and trash will be disposed of at an authorized landfill. Drained equipment oil will be disposed of in pits at drill sites or at a landfill.
- 13) The completed road shall be maintained so that the travel surface is free of excessive ruts, holes, soft spots, slides and washboards. The road, drainage, and shoulders shall be free of large rocks, vegetative debris and slides. Drainage ditches shall be relatively free of sediments and not excessively eroded. Low water crossings shall be maintained.
- 14) During periods of weather when activity would result in deep rutting (6 inches or more) of the driving surface or excessive disturbance on the right-of-way, a stop work order may be verbally issued by the Authorized Officer with a follow-up written order. An authorization to resume work will be required.
- 15) Residues and contaminated earth in mud pits may be required to be completely removed if, with reclamation, same would be near or exposed at the surface.
- 16) Upon completion of drilling operations, the BLM's representative shall be notified by Amoco of production and/or reclamation plans so that an inspection may be conducted to determine if mitigating measures in addition to those included in the surface use plan or presented hereby are necessary.

- 17) Any production facilities will be painted a single, low gloss, pastel color that will blend with the color of soils, rock or vegetation. Color will be approved by the BLM's representative.
- 18) Reclamation, when determined necessary by the BLM, will return all disturbed areas to a color and topographic form that blends with the surroundings. Any topsoil stockpiled will be redistributed and the area seeded as specified by the BLM at the time of reclamation. Erosion control devices will be required as determined by BLM.

CONFIDENTIAL

OPERATOR AMOCO PRODUCTION CODATE 3-17-83WELL NAME DESERT LAKE UNIT #1SEC SENE 22 T 17S R 12E COUNTY EMERY43-015-30156

API NUMBER

FED

TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☐

HL

☐☐

NID

☐

PI

☐☐

MAP

☐☐

PROCESSING COMMENTS:

APPROVAL LETTER: 2-28-83SPACING: ☒ A-3 DESERT LAKE
UNIT☐ c-3-a CAUSE NO. & DATE☐ c-3-b☐ c-3-c

SPECIAL LANGUAGE:

Drilling of this well commenced prior to State of Utah approval.
Such disregard for State rules and regulations will not be
tolerated, and Amoco Production Co is hereby placed on
notice to insure full compliance with all pertinent
permitting and reporting requirements.

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING *FED*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER *NO*

☒ UNIT _____

☐ c-3-b

☐ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE *outstanding production reports* REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

March 17, 1983

Amoco Production Company
501 Airport Drive
Farmington, New Mexico 87401

RE: Well No. Desert Lake Unit #1
SENE Sec. 22, T.17S, R.12E
1820' FNL, 740' FEL
Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil/gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure. Drilling of this well commenced prior to State of Utah approval. Such disregard for State rules and regulations will not be tolerated, and Amoco Production Company is hereby placed on notice to insure full compliance with all pertinent permitting and reporting requirements.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

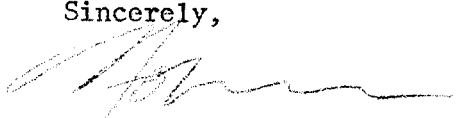
RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-015-30156.

Sincerely,


Norman C. Stout
Administrative Assistant

NCS/as
cc: Oil & Gas Operations
Enclosure

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPODDING INFORMATION

NAME OF COMPANY: AMOCO PRODUCTION COMPANY

WELL NAME: DESERT LAKE UNIT

SECTION SENE 22 TOWNSHIP 17S RANGE 12E COUNTY EMERY

DRILLING CONTRACTOR AZTEC WELL SERVING

RIG # 289

SPODDED: DATE 3-14-83

TIME 1830 hrs.

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY DARRELL D LAWSON

TELEPHONE # (505) 325-8841
FARMINGTON, N.M.

RECEIVED
MAR 17 1983

DIVISION OF
OIL, GAS & MINING

DATE MARCH 17, 1983 SIGNED D.D. Lawson

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☐ well ☐ other ☐ Wildcat
2. NAME OF OPERATOR
Amoco Production Company
3. ADDRESS OF OPERATOR
501 Airport Dr., Farmington, NM 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1820' FNL x 740' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Spud and Set Casing ☐

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE
U-21793
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Desert Lake Unit
8. FARM OR LEASE NAME
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/NE, Section 22,
T17S, R12E
12. COUNTY OR PARISH
Emery
13. STATE
Utah
14. API NO.
43-015-30156
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5426' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded a 12-1/4" hole on 3-14-83 and drilled to 222'. Set 9-5/8" 32.3# H-40 casing at 222' on 3-15-83 and cemented with 240 cu ft class B cement containing 2% CaCl₂. Circulated 60 cu ft class B cement to surface. Drilled 8-3/4" hole and reached a TD of 2794' on 3-26-83. Set 5-1/2", 14#, K-55 casing at 2794' on 3-26-83 and cemented with 777 cu ft class H 50:50 poz cement containing 6% gel and .8% FLA. Tailed in with 239 cu ft class H neat cement. Circulated 54 cu ft class H cement. Released rig on 3-27-83.

CONFIDENTIAL

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED DD Lawson TITLE Dist. Admin. Supvr DATE 3-30-83

(This space for Federal or State official use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☐ well ☐ other ☐ Wildcat

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Dr., Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
1820' FNL x 740' FEL
AT SURFACE: Same
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT TO:

☐
☐
☐
☐
☐
☐
☐
☐

(other) Move on Completion Rig

5. LEASE
U-21793

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Desert Lake Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/NE, Section 22,
T17S, R12E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. API NO.
43-015-30156

15. SHOW DF, KDB, AND WD
20 GL

RECEIVED

APR 06 1983

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

**DIVISION OF
OIL, GAS & MINING**

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In compliance with the conditions of approval for Notice to Drill, Amoco Production Company is submitting this notice to inform you that we rigged up a replacement rig for completion operations on 3-28-83.

Verbal approval was obtained from R. A. Henricks by R. P. Murphy on 3-28-83.

CONFIDENTIAL

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED D. J. Lawton TITLE Dist. Admin. Supvr. DATE 3-29-83

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
533-5771

State Lease No. _____
Federal Lease No. U-21793
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Emery FIELD/LEASE Desert Lake Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
March, 1983.

Agent's Address 501 Airport Drive
Farmington, NM 87401
Phone No. (505) 325-8841

Company Amoco Production Company
Signed D. D. Lawton
Title District Administrative Supervisor

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NE 22	175	12E	1	NA	NA	NA	NA	NA	NA	43-015-30156 TD of the well is 2794'. Completion rig moved on 3-28-83. Present oper- ation - swabbing.
CONFIDENTIAL										

GAS: (MCF)

Sold NA
Flared/Vented NA
Used On/Off Lease NA

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month NA
Produced during month NA
Sold during month NA
Unavoidably lost NA
Reason: _____
On hand at end of month NA

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

TerraTek Core Services, Inc.

April 15, 1983

Amoco Production Company
Amoco Building
Denver, CO 80202

Attn: Mr. Fred Strawson

Subject: Core Analysis Data; Desert Lake Unit No. 1 Well; Emery
County, Utah; TTCS File No. 337

Gentlemen:

Diamond coring equipment and water base mud were used to obtain 4.0-inch diameter cores from the formations and intervals shown on the preceding page in the subject well. A representative of Terra Tek Core Services received the cores at the wellsite where they were preserved in saran film and plastic polytubing and transported to our Salt Lake City laboratory for routine plug analysis.

A component core gamma depicting total Gamma, Uranium, Potassium and Thorium activities recorded separately is shown on the enclosed complimentary Component Gamma Log. Permeability, porosity, grain density and fluid saturation plots are shown on the four-color TEKLOG which also includes the total gamma log.

Residual fluid removal was accomplished by the Dean-Stark low temperature solvent extraction method on one-inch diameter plug samples drilled from the cores. Porosities were determined by Boyle's law (helium) grain volumes and Archimedes (mercury) bulk volumes. Horizontal and vertical permeabilities to nitrogen were measured in a hassler sleeve using the traveling meniscus method to monitor downstream flow. In addition to the routine permeabilities at ambient conditons, complimentary permeabilities of a few selected plugs were measured at approximate overburden pressure to aid in better evaluation of the reservoir potential.

Data resulting from the above analysis is tabulated on pages one through five. Following this analysis is a summary reflecting average data by zones based on permeability, porosity and fluid saturation variations.

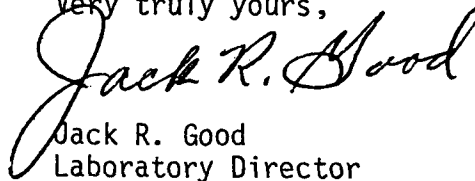
As specified by you, six plug samples were mailed to Core Laboratories in Aurora, Colorado for sensitivity tests.

You also requested that we measure capillary pressure by mercury injection on three plug samples. Two copies of this report are included with Mr. Strawson's routine core analysis reports.

The cores have been shipped to your core storage facility in Denver, Colorado.

We sincerely appreciate this opportunity to be of service.

Very truly yours,


Jack R. Good
Laboratory Director

JRG:gd
Enclosure

FINAL DISTRIBUTION LIST

Amoco Production Company
Desert Lake Unit No. 1 Well
Emery County, Utah
TTCS File No. 337

2 copies:

Amoco Production Co.
Amoco Building
Denver, CO 80202

Attn: John Samsela

1 copy:

Amoco Production Co.
501 Airport Drive
Farmington, NM 87401

Attn: Mickey O Hare

2 copies:

True Oil Co.
P.O. Drawer 2360
Casper, WY 82602

Attn: Lowell Lischer

2 copies:

Sohio Petroleum Co.
633 17th Street, Suite 2200
Denver, CO 80202

Attn: Don Hartman

2 copies;

Fuelco
1250-14th Street
Denver, CO 80202

Attn: Kim Houston

2 copies:

Claud B. Hamill
2306 First City Nat. Bk. Bldg.
Houston, TX 77002

Attn: Tom Brown

2 copies:

Williams Exploration
3025 So. Parker Rd., Ste. #600
Aurora, CO 80014

Attn: Ed Martin

1 copy:

Santa Fe Minerals
1380 Lawrence, Suite 700
Denver, CO 80204

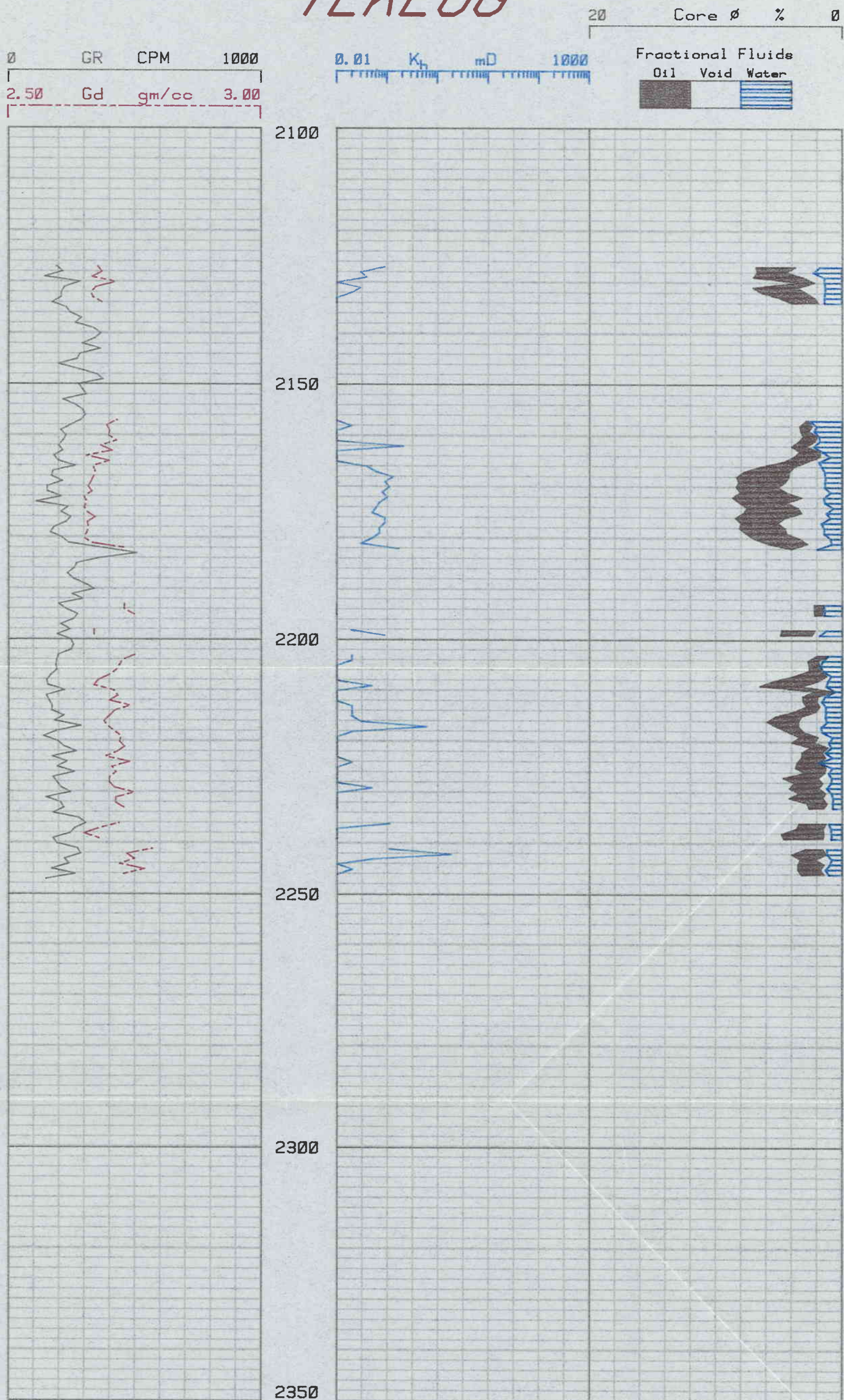
Attn: Ginny Burchard

TERRA TEK CORE SERVICES INC.
360 Wakara Way, SLC Utah 84108 (801) 584-2480

AMOCO PRODUCTION CO.
Desert Lake Unit #1

07 Apr 1983
TTCS No. 337

TEKLOG



Terra Tek Core Services

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

AMOCO PRODUCTION CO.

Well:	Desert Lake Unit #1	State:	Utah	Date:	13 Apr 1983
Field:	Wildcat	County:	Emery	TICS File #:	337
Drilling Fluid:	LSND	Location:	SE NE Sec22-T17S-R12E	Elevation:	5440 KB

DEAN-STARK PLUG ANALYSIS

Sample Number	Depth (feet)	Permeability		OB Perm 1000 PSI (md)	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)			Oil (%)	H2O (%)		

MOENKOPI FORMATION

1	2127.0-28.0	0.09	<0.01		6.8	45.7	26.1	2.68	Sd,vfs,dol
2	2128.0-29.0	0.03		0.02	6.7	34.3	33.6	2.69	Sd,vfs,dol
3	2129.0-30.0	0.04	<0.01		7.0	56.4	19.7	2.67	Sd,vfs,dol
4	2130.0-31.0	0.01			3.5	36.9	39.7	2.71	Sd,vfs,v/dol
5	2131.0-32.0	0.03	<0.01		7.1	49.6	18.6	2.67	Sd,vfs,dol
6	2132.0-33.0	0.02		0.02	6.4	55.8	21.3	2.66	Sd,vfs,dol
7	2133.0-34.0	0.01	<0.01		4.9	55.7	28.1	2.67	Sd,vfs,dol
8	2134.0-35.0	0.01			4.0	53.0	34.7	2.69	Sd,vfs,dol,mica
	2135.0 - 2156.0								Sh,sltst lam
9	2157.0-58.0	<0.01	<0.01		2.9	6.4	88.1	2.72	Sd,vfs,v/dol,shly
10	2158.0-59.0	0.02			3.3	28.4	60.3	2.69	Sd,vfs,v/dol,sl/shly
11	2159.0-60.0	<0.01	<0.01		3.3	19.9	67.2	2.70	Sd,vfs,v/dol,slty
12	2160.0-61.0	<0.01			3.1	36.5	58.1	2.70	Sd,vfs,v/dol,slty
13	2161.0-62.0	<0.01	<0.01		3.4	36.3	51.4	2.71	Sd,vfs,v/dol,slty
14	2162.0-63.0	0.21+			4.0	29.2	55.4	2.68	Sd,vfs,v/dol,mica
15	2163.0-64.0	<0.01	<0.01		3.3	47.1	47.0	2.71	Sd,vfs,v/dol,mica,slty
16	2164.0-65.0	0.01			3.8	54.1	23.7	2.65	Sd,vfs,v/dol
17	2165.0-66.0	0.01	<0.01		4.6	39.3	39.8	2.70	Sd,vfs,v/dol

+ Horizontal dehydration crack

Terra Tek Core Services

Page 2

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

AMOCO PRODUCTION CO.

Date: 13 Apr 1983

TICS File #: 337

Well:

Desert Lake Unit #1

DEAN-STARK PLUG ANALYSIS

Sample Number	Depth (feet)	Permeability Horz Vert (md) (md)	DB Perm 1000 PSI (md)	Porosity (%)	Saturation Oil H2O (%) (%)	Grain Density (gm/cc)	Lithology
18	2166.0-67.0	0.04		6.5	41.1 24.5	2.67	Sd,vfs,v/dol
19	2167.0-68.0	0.06 0.02		7.8	46.1 17.5	2.67	Sd,vfs,dol
20	2168.0-69.0	0.13		8.4	49.6 15.8	2.67	Sd,vfs,dol
21	2169.0-70.0	0.09 0.07	0.06	8.2	45.0 16.5	2.66	Sd,vfs,v/dol
22	2170.0-71.0	0.11		8.4	39.4 16.4	2.66	Sd,vfs,v/dol
23	2171.0-72.0	0.08 0.08	0.05	8.1	44.7 11.4	2.67	Sd,vfs,v/dol,mica
24	2172.0-73.0	0.10		8.7	63.1 16.6	2.65	Sd,vfs,v/dol
25	2173.0-74.0	0.07 0.03	0.05	8.1	45.7 16.6	2.66	Sd,vfs,v/dol
26	2174.0-75.0	0.06		7.6	53.6 9.0	2.65	Sd,vfs,v/dol
27	2175.0-76.0	0.05 0.03	0.04	7.8	58.7 15.7	2.66	Sd,vfs,v/dol
28	2176.0-77.0	0.09		8.5	46.6 10.8	2.67	Sd,vfs,v/dol,mica
29	2177.0-78.0	0.09 0.03		8.0	36.1 20.5	2.66	Sd,vfs,v/dol
30	2178.0-79.0	0.07		8.1	44.1 17.3	2.66	Sd,vfs,v/dol
31	2179.0-80.0	0.07 0.03		7.6	41.7 18.4	2.66	Sd,vfs,v/dol
32	2180.0-81.0	0.05	0.04	7.0	52.0 12.6	2.65	Sd,vfs,v/dol
33	2181.0-82.0	0.03 0.01		5.9	53.3 13.8	2.66	Sd,vfs,v/dol
34	2182.0-83.0	0.17+		4.1	0.0 48.4	2.74	Sd,vfs,sl/dol,v/shly
	2183.0 - 2193.0						Sh,sl lam
35	2193.0-94.0	<0.01 <0.01		2.2	32.2 64.9	2.73	Sd,vfs,v/dol,slty,shly
36	2194.0-95.0	<0.01		2.2	30.9 61.8	2.73	Sd,vfs,v/dol,slty,shly
37	2195.0-96.0	<0.01 <0.01		2.2	26.8 65.1	2.75	Sd,vfs,v/dol,v/shly,slty
	2196.0 - 2198.0						Sh,sl lam

+ Horizontal dehydration crack

Terra Tek Core Services

Page 3

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

AMOCO PRODUCTION CO.

Date: 13 Apr 1983

TICS File #: 337

Well:

Desert Lake Unit #1

DEAN-STARK PLUG ANALYSIS

Sample Number	Depth (feet)	Permeability		DB Perm 1000 PSI (md)	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)			Oil (%)	H2O (%)		
38	2198.0-99.0	0.02	<0.01		4.8	55.2	26.3	2.67	Sd,vfs,dol,shly
39	2199.0-00.0	0.09+			4.9	50.8	36.4	2.67	Sd,vfs,dol
	2200.0 - 2203.0								Sh,sd lam
40	2203.0-04.0	0.02	<0.01		2.0	42.3	55.1	2.75	Sd,vfs,dol,shly
41	2204.0-05.0	0.02			2.7	29.5	57.0	2.73	Sd,vfs,dol
42	2205.0-06.0	<0.01	<0.01		2.6	32.3	65.9	2.72	Sd,vfs,dol,v/slty
43	2206.0-07.0	<0.01			2.6	34.8	56.4	2.71	Sd,vfs,dol,slty
44	2207.0-08.0	<0.01	<0.01		3.8	67.1	23.4	2.70	Sd,vfs,dol,slty,shly
45	2208.0-09.0	<0.01			5.4	64.6	20.8	2.68	Sd,vfs,dol,slty,shly
46	2209.0-10.0	0.05	<0.01		6.5	50.6	19.6	2.67	Sd,vfs,dol
47	2210.0-11.0	<0.01			2.2	66.9	24.8	2.71	Sd,vfs,dol,slty,shly
48	2211.0-12.0	<0.01	<0.01		3.1	38.5	43.9	2.72	Sd,vfs,dol,slty,shly
49	2212.0-13.0	<0.01			3.1	34.9	52.0	2.70	Sd,vfs,dol,slty,shly
50	2213.0-14.0	0.02	<0.01		2.8	36.4	45.9	2.74	Sd,vfs,dol
51	2214.0-15.0	0.02			3.8	44.8	33.8	2.71	Sd,vfs,dol
52	2215.0-16.0	0.02	0.02	0.01	5.3	38.7	25.1	2.70	Sd,vfs,dol
53	2216.0-17.0	0.03			6.0	41.6	19.8	2.69	Sd,vfs,dol
54	2217.0-18.0	0.01	<0.01		5.2	32.9	32.1	2.70	Sd,vfs,dol
55	2218.0-19.0	0.02			4.3	29.0	36.5	2.71	Sd,vfs,dol
56	2219.0-20.0	0.01	<0.01		3.4	43.1	22.3	2.72	Sd,vfs,dol
57	2220.0-21.0	0.01			4.0	45.4	26.0	2.72	Sd,vfs,dol
58	2221.0-22.0	0.01	<0.01	<0.01	2.5	54.9	33.6	2.73	Sd,vfs,v/dol

+ Horizontal dehydration crack

Terra Tek Core Services

Page 4

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

AMOCO PRODUCTION CO.

Date: 13 Apr 1983

TTCs File #: 337

Well: Desert Lake Unit #1

DEAN-STARK PLUG ANALYSIS

Sample Number	Depth (feet)	Permeability		DB Perm 1000 PSI (md)	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)			Oil (%)	H2O (%)		
59	2222.0-23.0	<0.01			3.2	50.6	41.1	2.72	Sd,vfs,dol,mica
60	2223.0-24.0	0.01	<0.01		3.2	58.7	23.3	2.69	Sd,vfs,dol
61	2224.0-25.0	0.02+			3.6	47.9	50.9	2.74	Sd,fg,dol,pyr
62	2225.0-26.0	0.01	<0.01	<0.01	3.7	65.3	20.4	2.70	Sd,vfs,v/dol
63	2226.0-27.0	<0.01			3.0	53.2	36.2	2.71	Sd,vfs,dol,shly
64	2227.0-28.0	<0.01	<0.01		4.7	59.0	17.0	2.70	Sd,vfs,dol,shly
65	2228.0-29.0	<0.01			3.8	59.5	23.3	2.70	Sd,vfs,dol,shly,slty
66	2229.0-30.0	0.05+	<0.01		4.2	56.5	28.4	2.71	Sd,vfs,v/dol
67	2230.0-31.0	<0.01			3.4	61.5	23.9	2.75	Sd,vfs,v/dol,slty
68	2231.0-32.0	0.01	<0.01	<0.01	4.2	64.0	16.5	2.71	Sd,vfs,v/dol
69	2232.0-33.0	<0.01			2.8	57.0	26.8	2.71	Sd,vfs,v/dol,slty
70	2233.0-34.0	<0.01	<0.01		2.6	43.8	27.4	2.73	Sd,vfs,dol,shly
	2234.0 - 2236.0								Sh,sd stks
71	2236.0-37.0	0.11+	<0.01		3.4	62.8	30.0	2.72	Sd,vfs,dol
72	2237.0-38.0	<0.01			3.6	57.7	23.8	2.68	Sd,vfs,v/dol,slty
73	2238.0-39.0	0.01	<0.01	0.01	4.8	69.9	17.2	2.65	Sd,vfs,v/dol,slty
74	2239.0-40.0	0.01			4.6	67.1	18.5	2.68	Sd,vfs,v/dol,shly,slty
	2240.0 - 2241.0								Sh,sd stks
75	2241.0-42.0	0.11+	<0.01		2.9	46.9	41.4	2.79	Sd,vfs,dol,pyr
76	2242.0-43.0	0.01			4.0	67.9	29.2	2.73	Sd,vfs,dol
77	2243.0-44.0	0.05+	<0.01		3.3	36.3	24.7	2.75	Sd,vfs,sl/dol,shly,pyr
78	2244.0-45.0	0.01		<0.01	3.5	58.6	28.2	2.72	Sd,vfs,dol

+ Horizontal dehydration crack

Terra Tek Core Services

Page 5

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

AMOCO PRODUCTION CO.

Date: 13 Apr 1983

TICS File #: 337

Well:

Desert Lake Unit #1

DEAN-STARK PLUG ANALYSIS

Sample Number	Depth (feet)	Permeability		OB Perm 1000 PSI (md)	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)			Oil (%)	H2O (%)		
79	2245.0-46.0	0.02	<0.01		3.5	50.7	37.4	2.77	Sd,vfs,dol
80	2246.0-47.0	<0.01			3.2	54.9	32.3	2.73	Sd,vfs,dol,qtz

Terra Tek Core Services

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

AMOCO PRODUCTION CO.

Well:	Desert Lake Unit #1	State:	Utah	Date:	08 Apr 1983
Field:	Wildcat	County:	Emery	TTCs File #:	337
Drilling Fluid:	LSND	Location:	SE NE Sec22-T17S-R12E	Elevation:	5440 KB

DEAN-STARK PLUG ANALYSIS DATA SUMMARY

Zone Number	Depth Interval (feet)	Number of samples	Permeability		Porosity	Saturation		Grain Density
			Horz (md)	Vert (md)	(%)	Oil (%)	H2O (%)	(gm/cc)
MOENKOPI FORMATION								
1	2127.0-135.0	8	0.03 [0.03]	<0.01 [0.00]	5.8 [1.5]	48.4 [8.7]	27.7 [7.7]	2.68 [0.0]
2	2157.0-166.0	9	<0.01 [0.01]	<0.01 [0.00]	3.5 [0.5]	33.0 [14.2]	54.5 [17.9]	2.70 [0.0]
3	2166.0-182.0	16	0.07 [0.03]	0.04 [0.02]	7.8 [0.8]	47.6 [7.1]	15.8 [3.8]	2.66 [0.0]
4	2193.0-196.0	3	<0.01 [0.00]	<0.01 [0.00]	2.2 [0.0]	30.0 [2.8]	63.9 [1.8]	2.74 [0.0]
5	2198.0-200.0	2	0.06+ [0.05]		4.9 [0.1]	53.0 [3.1]	31.3 [7.2]	2.67 [0.0]
6	2203.0-207.0	4	0.01 [0.01]	<0.01 [0.00]	2.5 [0.3]	34.7 [5.5]	58.6 [4.9]	2.73 [0.0]

+ Horizontal dehydration crack
[] Sample standard deviation

Terra Tek Core Services

Page 2

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

AMOCO PRODUCTION CO.

Date: 08 Apr 1983

TICS File #: 337

Well:

Desert Lake Unit #1

DATA SUMMARY

Zone Number	Depth Interval (feet)	Number of samples	Permeability		Porosity (%)	Saturation		Grain Density (gm/cc)
			Horz (md)	Vert (md)		Oil (%)	H2O (%)	
7	2207.0-210.0	3	0.02 [0.03]	<0.01 [0.00]	5.2 [1.4]	60.8 [8.9]	21.3 [1.9]	2.68 [0.0]
8	2210.0-215.0	5	<0.01 [0.01]	<0.01 [0.00]	3.0 [0.6]	44.3 [13.2]	40.1 [10.8]	2.72 [0.0]
9	2215.0-221.0	6	0.02 [0.01]	0.01 [0.00]	4.7 [1.0]	38.4 [6.3]	27.0 [6.2]	2.71 [0.0]
10	2221.0-234.0	13	<0.01 [0.01]	<0.01 [0.00]	3.5 [0.7]	56.3 [6.2]	28.4 [9.9]	2.72 [0.0]
11	2236.0-247.0	10	<0.01 [0.01]	<0.01 [0.00]	3.7 [0.6]	57.3 [10.5]	28.3 [7.6]	2.72 [0.0]

[] Sample standard deviation

Terra Tek Core Services

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

HORIZONTAL PERMEABILITY VS POROSITY

AMOCO PRODUCTION CO.

Desert Lake Unit #1
Wildcat Field
Emery County, Utah
07 Apr 1983

Depth Interval : 2127 to 2247 feet

Permeability (K_h), mD

Min	Max	Average
0.01	0.19	0.03

Porosity (ϕ), %

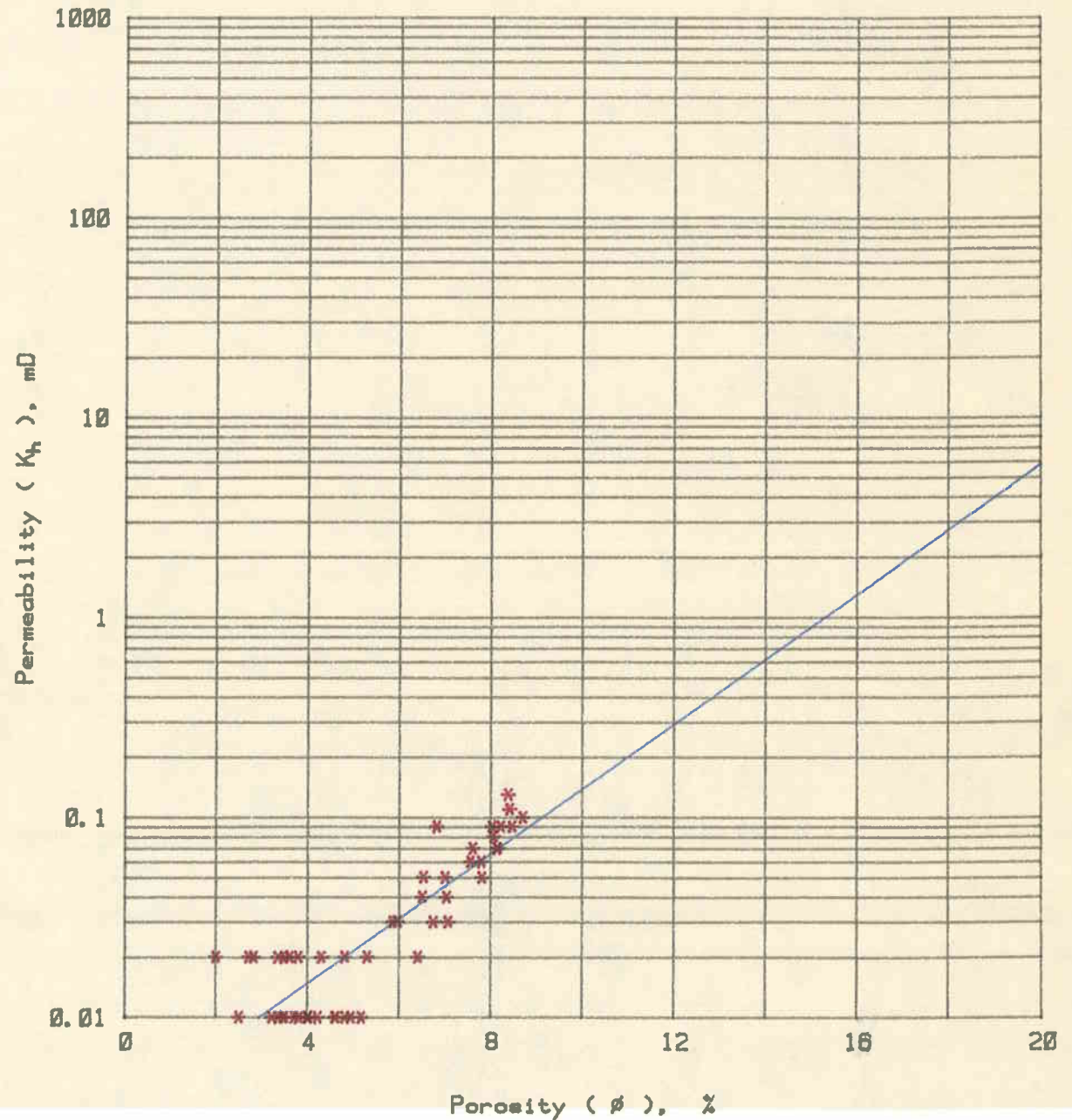
Min	Max	Average
2.00	8.70	5.54

Equation of the Line

$\log K_h = \text{Slope } \phi + \text{Log of intercept}$

$\log K_h = .1623 \phi - 2.4803$

Correlation Coefficient : .867



PERMEABILITY

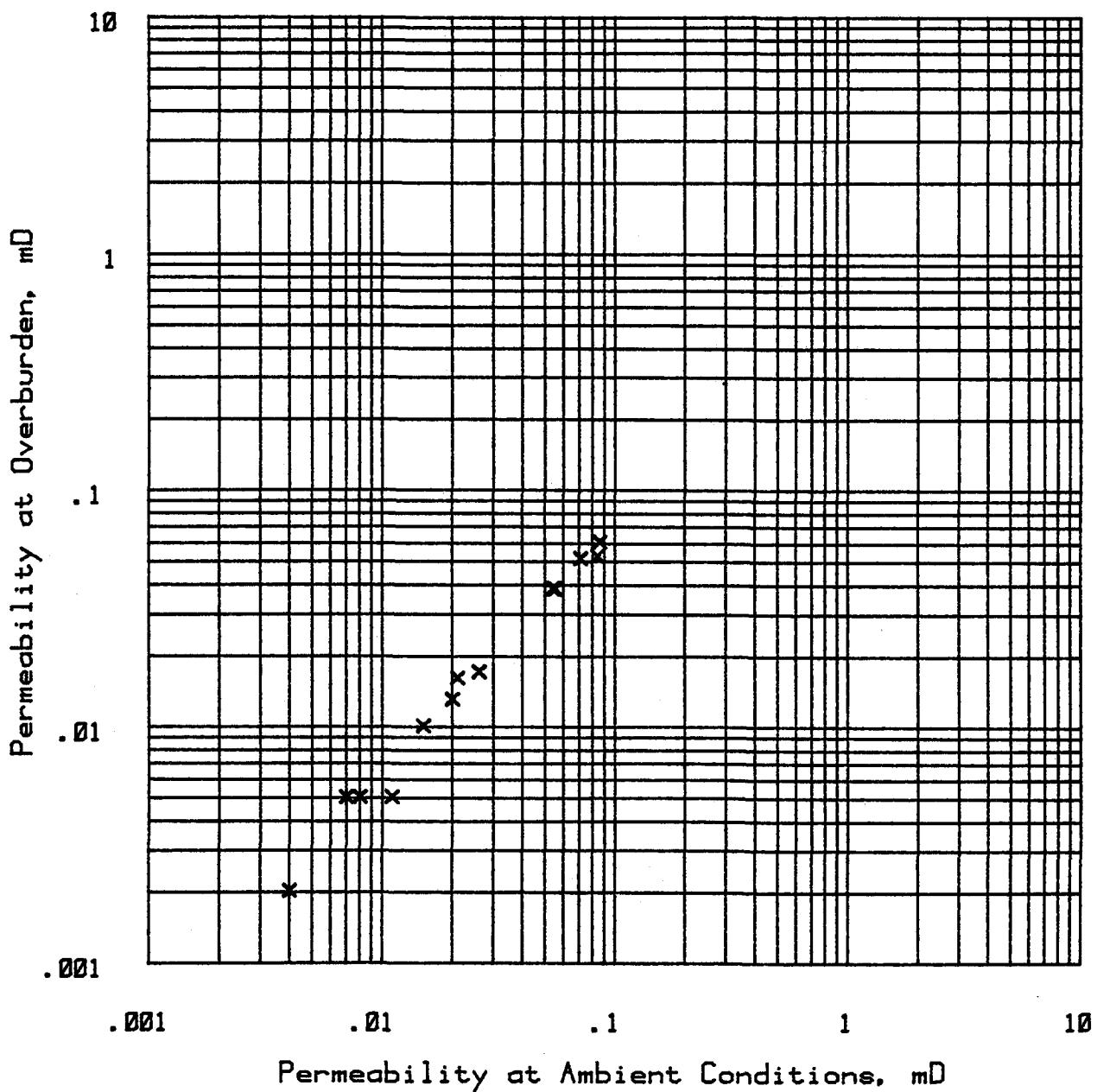
VS

PERMEABILITY AT OVERBURDEN

AMOCO PRODUCTION CO.

Desert Lake Unit #1
Moenkopi Formation

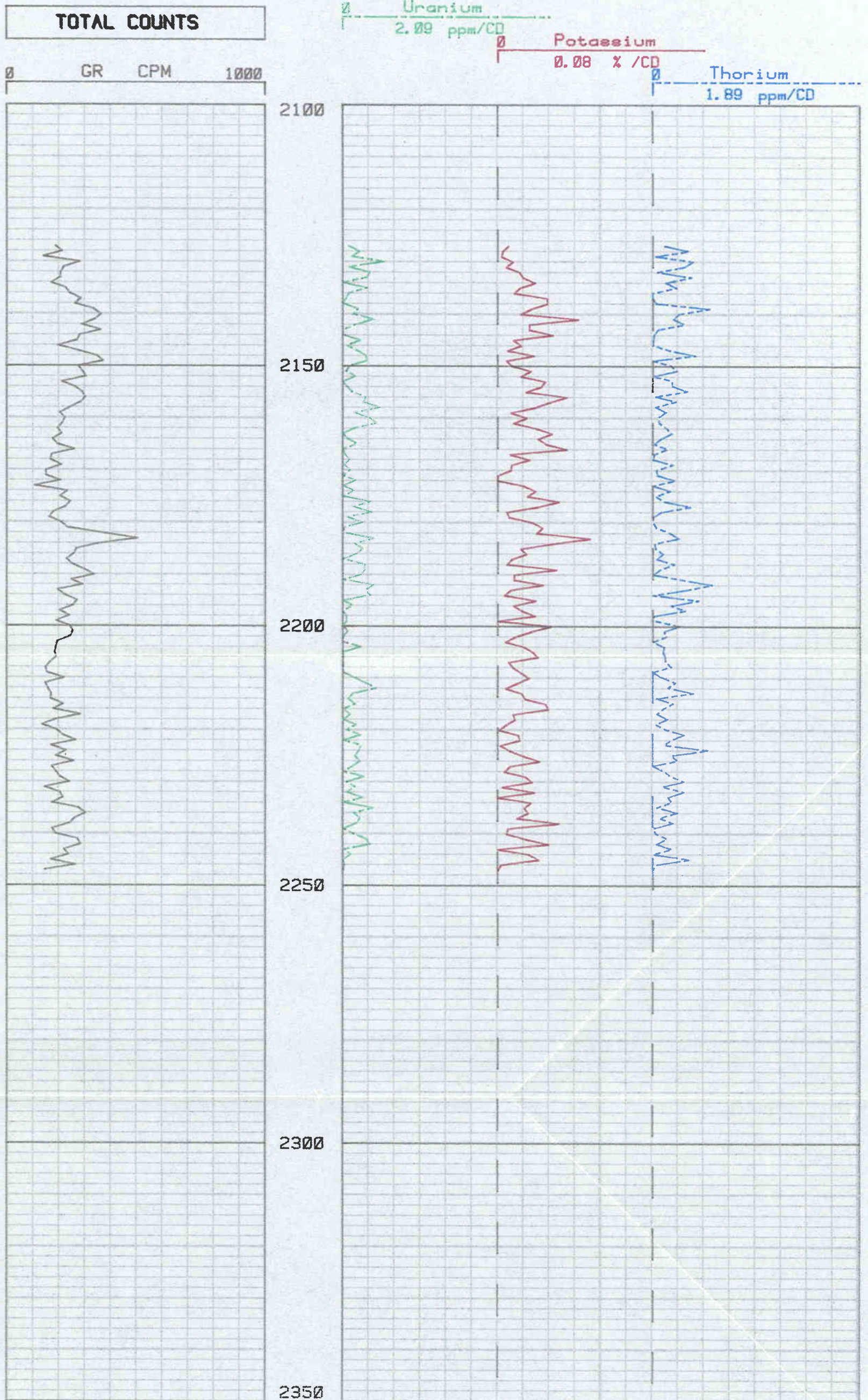
Emery Co., Utah
TTCS File No. 337



AMOCO PRODUCTION CO.
Desert Lake Unit #1

12 Apr 1983
TTCS No. 337

COMPONENT GAMMA LOG



CONFIDENTIALOperator AMOCO Production Company Representative Mickey O'HaraWell No. 1 Location SE 1/4 NE 1/4 Section 22 Township 17S Range 12ECounty Emery Field Wilcat State UtahUnit Name and
Required Depth Desert Lake Area Base of fresh water sands T.D. 2,794' Size hole and
Fill per sack " Mud Weight
' and Top #/gal. PBTD 2,060'

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
<u>9 5/8"</u>	<u>222'</u>	<u></u>	<u></u>	1. <u>1400</u>	<u>1200</u>	<u>As necessary</u>
<u>5 1/2"</u>	<u></u>	<u></u>	<u></u>	2. <u>960</u>	<u>760</u>	<u>As necessary</u>
<u>Formation</u>	<u>Top</u>	<u>Base</u>	<u>Shows</u>	3. <u>400</u>	<u>200</u>	<u>As necessary</u>
<u></u>	<u></u>	<u></u>	<u></u>	4. <u>At surface w/marker</u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

REMARKSDST's, lost circulation zones, water zones, etc., Tested several intervalsApproved by R. J. Firth Date 4-22-83 Time a.m.
p.m.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☐ well other Wildcat2. NAME OF OPERATOR
Amoco Production Company3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 874014. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1820' FNL x 740' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☒
(other) _____

SUBJECT OF REPORT OF

RECEIVED
MAY 04 1983DIVISION OF
OIL, GAS & MINING

5. LEASE

U-21793

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Desert Lake Unit

8. FARM OR LEASE NAME

9. WELL NO.

1

10. FIELD OR WILDCAT NAME

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/NE, Section 22, T17S, R12E

12. COUNTY OR PARISH 13. STATE

Emery

Utah

14. API NO.

43-015-30156

ELEVATIONS (SHOW DF, KDB, AND WD)
426' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amoco Production Company requests approval to plug and abandon the above well according to the following procedure.

- 1) Trip out with tubing.
- 2) Set a cement retainer at 1550'.
- 3) Trip in with tubing and stinger. Sting into retainer and pump 2% KCL into formation. Squeeze 50 sx Class "H" neat cement below retainer.
- 4) Sting out of retainer and pull up to 1400'. Spot 26 sx of Class "H" neat cement from 1400'-1200'.
- 5) Pull up hole to 960'. Spot 26 sx of Class "H" neat cement from 960'-760'.
- 6) Pull up hole to 400'. Spot 26 sx of Class "H" neat cement from 400'-200'.
- 7) Pull up to surface and spot 10' of Class "H" neat cement.
- 8) Set a marker at ground level.

Verbal approval received from Assad Raffoul of the Salt Lake City Bureau of Land Management

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft. (OVER)

18. I hereby certify that the foregoing is true and correct

SIGNED DD Lawson TITLE Dist. Admin. Supvr DATE 5-2-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

DATE: 5/2/83
BY: AS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☐ other Wildcat

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive Farmington, N.M. 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1820' FNL x 740' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☒
(other) ☐

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☒

RECEIVED

MAY 10 1983

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

**DIVISION OF
OIL, GAS & MINING**

5. LEASE
U-21793

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Desert Lake Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/NE, Section 22, T17S, R12E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. API NO.
43-015-30156

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5426' GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amoco Production Company abandoned the above well on 5-1-83 according to the following procedure.

1. Tripped out with tubing.
2. Set a cement retainer at 1526'.
3. Tripped in with tubing and stinger and pumped 2% KCL into formation. Squeezed 50 sx class "H" neat cement below retainer.
4. Pulled up to 1400'. Spotted 26 sx of class "H" neat cement from 1400'-1200'.
5. Pulled up hole to 960'. Spotted 26 sx of class "H" neat cement from 960'-760'.
6. Pulled up to 400' and spotted 26 sx of class "H" neat cement from 400'-200'.
7. Pulled up to surface and spotted 10' of class "H" neat cement.
8. Set a marker at ground level.

CONFIDENTIAL

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED DD Lawrence TITLE Dist. Admin. Supvr DATE 5/5/83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 5/11/83
BY: [Signature]

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: _____
BY: _____

See Instructions on Reverse Side



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 9, 1983

Amoco Production Company
P. O. Drawer 829
Evanston, Wyoming 82930
Att: Drilling Department

Re: Well No. Desert Lake Unit # 1
1820 FNL, 740' FEL
SE NE, Sec. 22, T. 17S, R. 12E.
Emery County, Utah

Well No. Champlin 464 Amoco "B" # 1
1620' FSL, 929' FWL
NW SW, Sec. 23, T. 1N, R. 5E.
Summit County, Utah

Gentlemen:

This office received Sundry Notices dated May 5, 1983 & May 27, 1983, stating the Subsequent Report of Abandonment for the above referred to wells respectively. As of todays date, this office has not received the required Well Completion for these two wells.

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells are due and have not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Well Records Specialist

CF/cf
Enclosure



Amoco Production Company

July 30, 1984

RECEIVED

AUG 1 1984

Utah Division of Oil Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

DIVISION OF OIL
GAS & MINING

Attn: Pam Kanna

File: JEK-951/WF

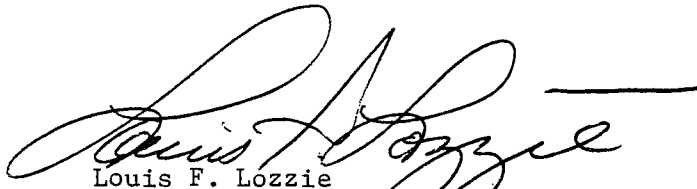
Re: Alva P. Murdock, Deseret WI #1, State of Utah "S" #1
and the Gillmore #1 Wells

6 N. 5 E. 2

Ms. Kanna:

In regards to the above referenced wells, they were all drilled, P & A'd and completed as dry holes. There was no production of any kind on any of these wells.

If you have any questions in the future in regards to production will you please direct your correspondence to our Production and Revenue Supervisor in writing.


Louis F. Lozzie
Administrative Supervisor

KG/



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 27, 1984

Amoco Production Company
501 Airport Drive
Farmington, New Mexico 87401

2nd NOTICE

Gentlemen:

Re: Well No. Desert Lake Unit 1 - Sec. 22, T. 17S., R. 12E.
Emery County, Utah - API #43-015-30156

This letter is to advise you that the "Well Completion or Recompletion Report and Log", Form OGC-3, for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Rule C-5 of The Oil and Gas Conservation General Rules and Regulations and Rules and Practice and Procedure states:

Within ninety (90) days after the suspensions of operations on, abandonment of, or the completion of any well drilled for the production of oil and/or gas, and within ninety (90) days after the completion of any further operations on the well, if such operations involved drilling deeper or drilling or redrilling any formation, a well log shall be filed with the Commission on a form prescribed by the Commission, together with a copy of the electric and radioactivity logs, if run.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office within fifteen (15) days.

Page 2
Amoco Production Company
Well No. Desert Lake Unit 1
August 27, 1984

**You are in violation with the above rule. If you wish to continue developing business in the State of Utah, compliance with pertinent rules and regulations is essential. Further delay in your attention to the above matter may result in punitive action. Please submit the required information as stated above within fifteen (15) days.

Respectfully,



Norman C. Stout
Administrative Assistant

clj

Enclosure

cc: D. R. Nielson
R. J. Firth
J. R. Baza

89810

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE*
(See other instructions
on reverse side)

56 64 01

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other <u>Wildcat</u>		
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>		
		DIFF. RESVR. <input type="checkbox"/>	Other <u>RECEIVED</u>				
2. NAME OF OPERATOR Amoco Production Company							
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, NM 87401							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1820' FNL x 740' FEL At top prod. interval reported below At total depth Same							
14. PERMIT NO.		DATE ISSUED					
43-015-30156		3-17-83					
5. LEASE DESIGNATION AND SERIAL NO.	U-21793						
6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
7. UNIT AGREEMENT NAME	Desert Lake Unit						
8. FARM OR LEASE NAME							
9. WELL NO.	1						
10. FIELD AND POOL, OR WILDCAT	Wildcat						
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	SE/NE Sec 22 T17S R12E						
12. COUNTY OR PARISH	Emery		13. STATE Utah				
15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RSB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD			
03-14-83	03-26-83	PxA	5438' KB	5426' GR			
20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS		
2794'	Surface			0-TD			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*					25. WAS DIRECTIONAL SURVEY MADE		
					Yes		
26. TYPE ELECTRIC AND OTHER LOGS RUN (DIL, DC, CNL, GR Caliper, BHCS, Borehole Televiewer, Borehole Gravimeter)					27. WAS WELL CORRED		
					Yes		
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
9-5/8"	32.3# H-40	222'	12-1/4"	240 cu.ft. Class B w/2% CaCl ₂			
5-1/2"	14# K-55	2794'	8-3/4"	777 cu.ft. Class H 50:50 POZ cont. 6% gel and .8% FLA tailed in Class H neat. No casing was pulled.			
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED						
Surface	10' Class H neat						
200-400'	26 sx Class H neat						
760-960'	26 sx Class H neat						
1200-1400'	26 sx Class H neat						
33.* PRODUCTION/ 1526' 2.6 sx Class H neat on top of cement							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)		
					P+H		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY		
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>BDS Haw</u>		TITLE <u>Administrative Supervisor</u>		DATE <u>August 31, 1984</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Navajo	445'	960'				
Wingate	960'	1364'				
Chinle	1364'	1640'				
Moenkopi	1640'	2640'				
Kaibab	2640'	2750'				
White Rim	2750'	2794'				



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 17, 1986

Amoco Production Company
501 Airport Company
Farmington, NM 87401

Gentlemen:

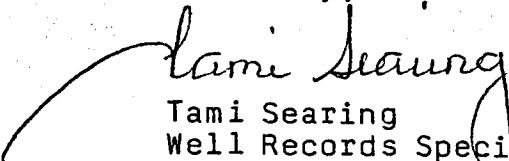
Re: Well No. Desert Lake Unit #1 - Sec. 22, T. 17S, R. 12E,
Emery County, Utah - API # 43-015-30156

According to our records a "Well Completion Report" filed with this office on the above referenced well indicates the following: A Core Analysis and Directional Survey were ran on this well. This office has not yet received either of these.

Please take care of this matter as soon as possible, but not later than January 31, 1986.

Your cooperation in this matter is appreciated.

Sincerely,


Tami Searing
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0320/52

TerraTek Core Services, Inc.

RECEIVED

JAN 24 1986

DIVISION OF OIL
GAS & MINING

Amoco Production Company
Desert Lake Unit No. 1 Well
Emery County, Utah

TTCS File No. 337

T I T H O L E

<u>Core No.</u>	<u>Interval</u>	<u>Formation</u>
1	2127 - 2187	Moenkopi (Triassic)
2	2187 - 2247	Moenkopi (Triassic)